

<110> Andersen, Scott E.
Byrum, Joseph R.
De La Pena, Robert C.

<120> NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
PLANTS

<130> 38-21(15878)B

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 ggatggcgcg cgggtacagc ttcattgagc ttgtgcctga gatgagcgta cccgataagt 360
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 aatgggggaga gtaagcatga taagaaaggc tgcttttagta attggggaaa gaggggtcaa 300
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ctatctgttc atttctttgg 440

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gctgcaccca gtgcaagtgc ggcaccagct gcggctgctc ctgctgcagc tgctagatca 240

ttgatcatgc atgcgccgcg tgcatcatat ctatgatcta tctaccatct actaccatgt 300

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<210> 36
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189002e08b1

<400> 36

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gaccctgacc ctctccagga cttctgtgtg gccgacctcg atgacaacgc ggtccgggtg 120
aacggatacc cgtgctgccc ccagttggaa gccggcgacg acttcctctt ctctccaag 180
ctagccaggg gcggcaacac gtccaccccg aacggctcgg ccgtgacgag gctggacgtg 240
acggagttcc ccggcgagaa caccgaggt atctccatga accgctgga cttcgcgccc 300
gggggcacca acccgtcgca catccacccg cgcgccaccg agatcggcct cgtggtgaaa 360
ggcgagctcc tcgtgggcat catcggcagc aacgagtcgg ggaacaggct ctac 414

<210> 37

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189002e09b1

<400> 37

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aaaggaggat gtcttgctgc ggcggcaact gcggatgcgg cgccggctgc aagtgcggca 120
acggctgcgg cgggtgcaag atgttccccg acgttgaggc caccgccggc gccgccgcca 180
tggtcatgcc caccgcctcc cacaagggga gtcggggcgg gttcgagacg gccggcgggg 240
agaccggcgg ctgcgactgc accacctgca agtgcgccac ggctgcggc tgctcctgct 300
gcagctgcaa ctgagccggc gccaggagg ccggccggcg aggcgagcac gaggatgagg 360
aggacaactg gacaagcaac caccaccacc accaccac 398

<210> 38

<211> 294

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189002e10b1

<400> 38

ccctctcgtc cggatcatcat cgtaaattgc agcagttttt ctttcatcac atcttgccaa 60
ttttgggcag catatgttat tgaacgagct caatagactg ccaggtcttc cccatggcaa 120

gtgttctgga ctggctactg tgtttatgtg cttgctatgc tctggcacag aattggggcca 180
 ttgcttgtct tacattccct ctgttgtaaa acttcaaact gaatatacct cttgtatggt 240
 gtatgcagat atcttcggct agagataata tggtcagtat aaatactttc tctc 294

<210> 39
 <211> 286
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002e12b1
 <400> 39

ggttctgcca tcaactggacc gatcgggaag gagtgcgccg acctgtggcc caggattgcc 60
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 gatagcatgt cctctttttc ttctagtta cttgtggccc ttgaggatga gtttctctgga 180
 ttatgtaatg ctgctggatt attgtctgtt aggtttaaga ttttgcaactg tggtttggt 240
 gctaagattt gttcagtttg aacctgaaag agcttttgat cggatt 286

<210> 40
 <211> 147
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002f02b1
 <400> 40

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 aggcaagatg cattcttttg atgtactatc tgaaatttta caaagtaact acagaacaga 120
 tgacgcaatg aagtacatct actaatc 147

<210> 41
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002f03b1
 <400> 41

tcgtgattat ggtttatggt agcattttca acaaaaagac atgtgtttgc atgcctttgt 60

tgtggacgag cggatctatg gccaggaatg cgggatgacc cttgggtgac gtctgacaag 120
 cgttgtgCGT cccttgatgg gtgtgggtgct ggctgtagag tagcatagtg ttctctgaga 180
 catgcttgta aaattaaact tttttggatc cttttttttg ctcctgtaga gatgtatttt 240
 cagttctgta tgtcatgctt gtaaaattaa tcttttttgg atcctttttt tgctcctgta 300
 cagatgtatt ttctgggtgta tatgtaattt tctgttttta atgacacaag catatatattt 360
 ctgttaaatt attattggct taaaattt 388

<210> 42
 <211> 376
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189002f04b1

<400> 42

tcggctggaa acaatcgtgc aggtattgat aggaggcagg atggccaac atttccgccg 60
 ggaagacggc agcgtttgag atacacgcaa agaagccagc atgatccatg atcggccgaa 120
 gcaacactac ctgtgcagta tttagttatt acaaacagcc aagccatcct tgtaaaatag 180
 ctagtgggtgg ttaagaataa atatcttggc ctatttacta ttcgtgtatt atatctgtta 240
 gaaacgttct agtgcagatg cagaacttcc cttctaaatg tctctattca atgccttggt 300
 cttggtagtc tttgtctttt ttttctgtgt gaggtgggtc tgtgattaag ttgaaatgag 360
 atataactgc attttc 376

<210> 43
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189002f05b1

<400> 43

gtgcccctac acggtgtggc caggagccta cccggtcggc ggcgaggagca ggctcgacac 60
 gggtcaggcg gcgaccattc aagtcccccc gggcacggcg gctggaagga tttggggccg 120
 caccggctgc aacttcgatg ctagtggccg cgggtcatgc accacgggag actgtggcgg 180
 cgtgctagcc tgcgctgccg gcgggaggcc acccgcgacg ctcgccgagt acacgctggg 240

taagggcggc agccccgact tctatgacat ctccctcgtt gacggattca acgtgccgat 300
gagctttggg cctgccggcg gcggttttca cgcgataagc tgtgccgcgg acatcaacgc 360
aaattgcccc tgggagctga aggtggacgg aggatgcgtg agtgccctgcg tcaagttcgg 420
cgccccccag ta 432

<210> 44
<211> 347
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002f06b1
<400> 44

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ctcgaaggag gagtaggctc tgttctgatg tgatcggcag cccctcctgga gtcgatcttg 120
gtttcggtgt atcgctagaa agaaacttta atacctagta gtcggctagg ctccatcgtc 180
gttgtggtat cagcagcgaa gatgcgaagc cgcaacagaa tgcttgctgt ataacttggtg 240
catttgctaa atttgctacg ccattgcatgt ctgccacacg ctatttggat gtggctaaaa 300
aactcctgaa taattctgta cataatatgt attgcttcca ttagaaa 347

<210> 45
<211> 406
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002f07b1
<400> 45

gcagttcggc cgagccctcc gccgccgccc cgccttcagc tctctccttc cttctccgat 60
ccaagatgaa gttcattgct gcctatctgc ttgcttaact ctctggcaac gccagcccct 120
ctgcagagga cctgacatcc attcttgagt ctggttggtg tgaaatcgac aatgagaaga 180
tggaactcat gctgtcccaa gtgaagggca aggacatcac cgagctcttg gctgctggta 240
gggagaagtt tgctgcgggt ccattctggtg gtggtggtgt ggctgtttca gctgctgccc 300
ctgctgctgg aggtgctgct gcccctgcag ctgagtcaaa gaaagaagag aaggctcgtg 360
agaaggaaga gattgatgat gacatgggct tcagtctggt cgacta 406

<210> 46
 <211> 290
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189002f08b1

 <400> 46

 tcgatttacg cagctacctg tatcattcgg atcataagat gtactagggt cggctgcact 60
 atgtgaatca taagatgtgg taggatgggtg ctatgcgaag cgtgtcgagc tgaagtacct 120
 agtggactac agtcatgagg acggtcattgt ggacatcgtc gcttcttagt tcattagcag 180
 atttcaaact atttcctgta ttgcagcaca ttattagtat tgctgtatta gcaattttca 240
 tggcttggtg atgattgatc aaagaaaaaa aaaagcctaa acttaacact 290

<210> 47
 <211> 409
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189002f09b1

 <400> 47

 ctccttacag catcctcctc tcgggttctta gtttcttttc caccaccac aggccaagga 60
 ggatgtcttg ctgcggcggc aagtgcgggt gcggcgccgg ctgccagtgc ggcaacggct 120
 gcggcgggtg caagatgttc cccgacgtgg aggccaccgc cggcgccgcc gccatggtca 180
 tgcccaccgc ctcccacaag gggagctccg gcgggttcga gacggccggg gagaccggcg 240
 gctgcgactg caccacctgc aagtgcggca ccgcgtgcgg ctgctcctgc tgcagctgca 300
 actgagccgg cgcccatgat gccggcagag gcgagcacga ggatgaggag gaggacaagc 360
 aagcaagcac catcgtcacc agttcacagc atgcgcccgc gcgcgcgct 409

<210> 48
 <211> 370
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189002f10b1

 <400> 48

ccctctcgtc cgccacgcg tccggcgccc gcctgcccgc cccgatggcc cgcacgaagc 60
agacggcgag gaagtccacc ggcggcaagg cgccgcggaa gcagctggcg accaaggcgg 120
cgcgcaagtc cgccccggcc accggcgggc tgaagaagcc gcaccgcttc cgccccggca 180
ccgtcgcgct ccgcgagatc cgcaagtacc agaagagcac ggagctgctc atccgcaagc 240
tgcccttcca gcgcctggcg cgggagatcg cgcaggactt caagaccgac ctccgcttcc 300
agagctccgc cgtgtccgcg ctccaggagg ccgccgaggc ctacctcgtg gggctgttcg 360
aggacaccaa 370

<210> 49
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002f12b1
<400> 49

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gcggcggtcg caacatgtac ccggaggccg aggcgcggcg tgccaccctc cttgtctccg 120
ccaccgccac ccacaaggcg agctccggcg ggatggagat ggcggccgag aacggcggtc 180
gcggctgcaa ccagtgaag tgcggcacca gctgcggtg ctctgctgc agctgctaga 240
tcategatca tcgaccatgc atgcaccgtg ccgtgctgctc atcatcgatc atatcgatct 300
actactacca taccatgtaa ccgctacctg atcgagggcc tttctgtacg cacctgacct 360
gcacgagcag tcaggtgcca tgccatgc 388

<210> 50
<211> 55
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002g02b1
<400> 50

aaatttaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgga caatataaaa agaaa 55

<210> 51
<211> 436
<212> DNA

caagtgcggc accagctgcg gctgctcctg ctgcagctgc tagatcattg atcatcgatc 300
atgcatgcac cgcgcgcatg catcatatct atgatcgatc catccatcca tctagtagca 360
tgtaacgcta cctgatcgag ggtctttgta tgtatgtaag cacctgccag catgagcaga 420
gcaggtgcac tcccatgcat gtaaacc 446

<210> 54
<211> 158
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002g07b1
<400> 54

tcgcttttgg ctgtcgggttc taaaattaaa cttatgtgtg tcggttttgc ttggttagtg 60
accaccgagc agaagtgaac tcttgaggct gcttcgtttt ttgtgaacca aacgtatctt 120
gtttatcgat ttgacaagcc tggttctgag ttatttta 158

<210> 55
<211> 339
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002g09b1
<400> 55

tttccgattc tccaaccgaa ccgaggatgt cttgctgcgg aggaaactgc ggcggcggca 60
ccgcctgcaa gtgcggcaac ggctgcggcg gctgcaacat gtaccggag gccgaggccg 120
ccggtgccac cctccttgtc tccgccaccg ccaccacaa ggcgagctcc ggcgggatgg 180
agatggcggc cgagaacggc ggctgcggct gcaaccagtg caagtgcggc accagctgcg 240
gctgctcctg ctgcagctgc tagatcatcg atcatcgacc atgcatgcac cgtgccgtgc 300
gtgcatcatc gatcatatcg atctactact accatacca 339

<210> 56
<211> 266
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002g11b1

<400> 56

tcggggtctt gcggcatcgt ttactgactt gcgcctcatt gaacgggatg gaaggagcag 60
ccctatcttg aaggactttc ctactgttat atccaacaat aaatgttatt ctatcactcc 120
tattgttaat tccgggtgct tctatggcgg gccaggaggt tgtgtgtaat actaagctgt 180
actttgaacg tgggtggtgta ataatgggtc ccttgagttt gtcttcccaa actcatactg 240
gcctaataag acactatgtg tttccg 266

<210> 57

<211> 230

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189002h01b1

<400> 57

ataaatgtgg atggtgtcgc cagacgacgc ctggttcatt ttagttggac atgagttacc 60
ttctgttttc cgcatacaacc tctagtatct gtaatggagt tgctaataca gtactctttt 120
ttggttgggt tttgtgaaga atatataaat cgttcagtc agtactcaac tccctttctg 180
tctggctttt cgcctcgtcc gtggcttgga tttctgcttt tgccttgctt 230

<210> 58

<211> 331

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189002h02b1

<400> 58

tgcgccactc gtccgcggcg agcgaaatgg gagcagccta aaccgtgaaa acgggggttg 60
gggagaagct cgaccgcac gtccagcaga agctccatgg ttccgggctc gtgttttgag 120
caagagtcac ttgtcatgtg ttctgtgctc ctttgcactc tgctgcttct ggttggtgag 180
aggagagccc tatgttgatt gtgtttatta ttattattat tatcattatt gtttggattg 240
cttaccacat gtgtcaccgt ggtatgttga ttgtggttta attttgagaa taataataaa 300
acaacatctg gctcatagg gtgggatagc c 331

<210> 59

<211> 309
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002h03b1

 <400> 59

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 ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaagg gggggggggg ttaaagggaa aaaatttttg taccgggggt tgggaagaaa 240
 aaattttttt tttgggggca caaaaataaa ataagggggg ggggttttaa aaaggggggg 300
 ggggggaaaa 309

<210> 60
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002h04b1

 <400> 60

 tctccctctc gtccgcccac gcgccgcac acgcaaggag cacgaggagg aggcaaggga 60
 agccgcccgc gccgcccgc cgccctcct cgccggccgg ccgccacagg tagtttcaag 120
 atgtcaacct gcacgtttgc agcttctctg gccctcttgg gcaatgctcg aacaaccgat 180
 gccccccaga aagcgggtcaa gagecgctg agcttctctg gccgaggcgc gccgcagctg 240
 cggagcctga ggtcctcctt cccctccaag aagctggtga catctgcata caaggggacg 300
 agcacgtaca aggtgaagct ggtgaccccg gaaggggacg agcacgagtt tgaggcgccg 360
 gacgacgcct acatcctgga ctcggcggag ac 392

<210> 61
 <211> 274
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002h05b1

 <400> 61

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taggtcattt tgcagattat agcaaaccga ggtctcgttg aggggtctgt tggtttggtc 120
cagtgccttt tctgcccata atgtgggcat ggaagatttg agctttgcaa taaaatttcc 180
ggcggcgcaa tgccacacat aacataactt gtacgagagg aagctagttt tgtgtcgagc 240
tgtgaactga taatgaacaa ttgctgatgc gtgg 274

<210> 62
<211> 170
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002h07b1
<400> 62

tcggatgttt gtttacttct gaagctactt cgccctttcc aaattactta cagcgtgctc 60
ggcagtatga gggaaaggga atggaagggtt acaagaggga gtatgtctag atattagact 120
tgagaattac tagaatttta gtctcaatct ccattttgat gtgtggtcgg 170

<210> 63
<211> 193
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002h08b1
<400> 63

gggagtttagc aactaatccg aggagtgtgc taccacgggg aagaagatcg ctgggtggaac 60
ttgatttttt tctttcctgg gaagtagacc gtggatgatg gtatgtaatt gtggagcaat 120
gcatgcttgt tggatgtgta cttgtaccct ggtgtttag cccatgtaaa aatgaatac 180
ccttttgaac att 193

<210> 64
<211> 394
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002h09b1
<400> 64

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 tgtgtgattc ttttctgcct tatggctaca tgtagtgagg tttcatctac cgaaaacatg 120
 tgctatcaca accattggaa taaatgccat actgatcaaa atggaatgtg tcgagatagt 180
 tgtgtgaaag acggatggga tgatggacaa tgccggaaca agttttaaag actaatgggt 240
 gccaaagtgcg aatgttacc c taagacttgt gatcattagg gaggcaacat gcgactttct 300
 tctaccaagt tactactatt tataaattta catcggtttt aatgattgac gtcaaacatg 360
 ttgtaacacc aatcatggtg aatactatat cacc 394

<210> 65
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002h10b1
 <400> 65

ggaaaacaat gtagccacgg tgtgatcacc aaggagcct cttggcaaag cttgtgtgtt 60
 cttccttgggt gcatgtgtgc gtgtgtgtgt gtggagtttc tccttgagtg aggcaagagg 120
 tagaagaagg gcgttgccggc gaggaggcgg cgccaacatt tggatttcag agccacaagg 180
 ttcgaggggc ggccgtggtg cgcggtggcg tccgcggcgg acggggcggtg cgcggccgac 240
 atggaggcat cggctgcggc gcatggcgag cgcgtggtga cggcgacgcg tggcgggtcc 300
 gcggcggtgc ggtgtgatgt cgtgcgcgcg aagagcacgg tggtcgcgga gacgaggagg 360
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<210> 66
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002h11b1
 <400> 66

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 ctgccgaacc agaacaccgt cgattacccc agcttcaagc tcgtcatcgt cggcgatggc 120
 gggactggca aaaccacttt tgtgaagagg catctcactg gagagtttga gaagaaatac 180

gagccaccca ttggtgttga agttcaccca ttggatttca ccactaactg cggaaagatc 240
 cgtttctact gctgggacac tgctgggcaa gagaagtttg gtggccttag agatggatac 300
 tatatccatg gtcagtgtgc gattatcatg tttgatgtca cttcaaggct gacctacaag 360
 aatgttccta cgtggcacag ggacctgtgc agggtttgtg agaacatccc cattgtcctg 420
 tgcggcaaca 430

<210> 67
 <211> 238
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002h12b1
 <400> 67

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 gtaactttat tttcttggct cggatatgtc gctgcatgct agcgagtgat ggggtgatgt 120
 gtgtgctctg tgtaagctcc atgctgtgtg aaattctctc gtgtgtgtgg tgtggctctc 180
 tcaatgttta accacctatg gtaaagacaa taacagcctc agagcaagtt ttccttaa 238

<210> 68
 <211> 362
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003a01b1
 <400> 68

cccacgcgtc cgtcaaacca tggcgtccat gaccggcctg tcgcagggcg tgcgtctccc 60
 aggcccggcc ggcaggcgcg ccagcaggtt caccgtgagg gcgtcgtcgg cggaggccga 120
 ggccgcccgc cgcgcgcgg tccttggcct catggccagc ggagtcgtcg ggagcgcgtt 180
 cgctcaggtg gtgcacgccg gcaccgtcgc ggccatcaag gttggccccc cgcgcgcgt 240
 ctccggtgga ctccccggaa cggacaactc ggacgaggca agggacttcg acctgccct 300
 gaagaaccgg ttctacctgc agccgctgcc accggcggag gcggcgggtgc gggccaagga 360
 gt 362

<210> 69

<211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189003a03b1

 <400> 69

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 cggagcgcac cgccaaccgg agcatcacct tggtcgactg gtcccgcggc ggcgcccacc 120
 cggccacctt cggcgccgcc gacgtgactg aggacttctt ggggacgctg gtggggaaga 180
 aggggaatgc tgagcgggtgc atgtacaacg ggcagccggt cgagggtgtgc ttcctctttg 240
 cgaggaagtt cggccctgac gctttgccgc agttgctcag cctttctctc aagatccttg 300
 ggtactagct atgcctttta ctaaactgat tttggtcttt ttatgtatag ctcatactca 360
 ctggagtgga atagaggaat acaattcttt ttttcatgtg tcacaaagaa caaaaggatg 420
 aatgatcgag tgggtggttt ttcttgacca ttcattttc tg 462

<210> 70
 <211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189003a04b1

 <400> 70

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 aagaagctgc gcaaggcgaa aaaggatgct cctgctggtg agaagcctga gccagtgagg 120
 acacatctcc gcaacatgat cattgtccct gagatgattg gcagccttat cgggtgtctac 180
 aatggcaaga ctttcaacca ggttgagatt aagcctgaga tgattggcca ttaccttgca 240
 gagttctcta tctcctacaa gccagtgaag cacggtaggc ccggtatcgg tgccacacac 300
 tcttcccggt tcatccctct taaatgagtt gtgccgcttt ctactttgaa agaaatcagt 360
 acggaccatc tgatggcatg tccatcgagc tgtctccctt gttttgaacc agttatatat 420
 ctagtatttg gttctggtta gctatataat ttcggtatgc ac 462

<210> 71
 <211> 115
 <212> DNA

<210> 74
 <211> 62
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003a08b1

 <400> 74

 aaaattaaaa atttttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60

 gg 62

<210> 75
 <211> 278
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003a09b1

 <400> 75

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 gcggatcagg ctgcagctgc ggctcagact gcaagtgcgg gaagatgtac cctgatctga 120

 cggagcaggg cagcgccgcc gccgaggtcg ccgccgtggt cgctctcggc gtggcgccctg 180

 agaacaaggc gggacagttc gaggtggccg ccgggcagtc cggcgagggc tgcagctgcg 240

 gcgacaactg caagtgaac ccctgcaact gttaagct 278

<210> 76
 <211> 431
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003a10b1

 <400> 76

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 tatccctggt tggatggata ccgaaacatt tccttcggat tctttttcac aagcggaacc 120

 atctatcatc gagtgcccaa caggaacagt tccaatactg cgtagtaacg gaagtagcac 180

 catagcaaca cacaatattg atgggctcaa aaacgatatg caatgggaga gggcaggact 240

 cagatacatg ggtgatttat atggggcggt tgcttcatta aatgtttggg agccaaaggt 300

taaaggtagc caggattcta gtgcaatttg gataagtatt gaaaatagaa gaggacaaca 360
gcctgatcgg gtgagcgccg gtcttcgggt agctccagca ttgagtgggtg atgcttttgt 420
tagacttcat g 431

<210> 77
<211> 170
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003a11b1

<400> 77

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ccgcagcttg tgaagtatgg aaggcgatca aattcgagtt cgagccggta gatactattg 120
ataagtctat aaatctaaag ataaagaaga gaaggataa atgaaggat 170

<210> 78
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003a12b1

<400> 78

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ccccgacatc ggcatctcct ccaaggccat gtccatcatg aactccttca tcaacgacat 120
cttcgagaag ctgcgcgggg agtcggccaa gctgcgccgc tacaacaaga agcccaccat 180
cacctccagg gagatccaga cctccgtccg cctcgtcttc cccggggagc tcgccaagca 240
cgccgtctcc gagggcacca aggccgtcac caagttcaca tcctcctaga ctgacggcgt 300
gcagttgggt tctgcatctg catctgtact cttgactctg cttatctatc tatctgcaag 360
tagtggtgggt ggtagtagta cctgtgctgg gtgattgcc aacgtttgtt ggcccgttgg 420
ttgtaagagc tgaagttgct gctttggcaa actgaaatct atcta 465

<210> 79
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b01b1

<400> 79

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gctcatgtaa cctagctagc ctgcagatct ccacgggaac gcttcttatt gttggctgcc 120
gaccgttgaa cctaccggg gtctgaacgg ataagggggc agcgaggcgg cctctccagg 180
ggataatcag aaggaagaat gtgctcgctc ggccagatca caccggcaga agaagtctgc 240
tacgtgcact gcaacttctg ccacaccaga ctgcgggcga gcgtccctgg gaacaacctg 300
ctcaacatcg tgacagaccg gtgcgggcac tgcacaaacc tactttcggg gagcctgaga 360
gggcagatgc actcacgggt cc 382

<210> 80

<211> 509

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b02b1

<400> 80

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caagttctac cacggccgca ccggacgcgt gtggaacgtc accaagcgcg ccatcggcgt 120
cgagatcaac aagcaggttg gaaaccgcat tatcaggaaa aggatccatg tccgtgttga 180
gcatgtgcag ccatccagggt gtgctgagga gttccgcctg aggaaagtga agaacgacca 240
gctcaaggcg gaagccaagg cgcgcggtga ggtcatcagc accaagaggc agccactcgg 300
ccctaaacct gggttcatgg tcgagggtac cacaattgag accgtcactc ccattcccta 360
cgatgtggtc aatgatctca aggggtggta ctagggtggt tgggttatct gcctgcacaa 420
ccagttcaaa tctatggtgc tcttatgagt aggatttgct ctctgagcaa gagtctgggt 480
tgggtcttta ttcagtgtcaa gaagatatt 509

<210> 81

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b03b1

<400> 81

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cgaaggcaat ggccactgct gatgtccaga acccggcggt cgcgctgacg gaggaggcgc 120
ccgcggtgga gacaccctg gtcgccgagg aggtcgcgaa gacggaggag gccccacgc 180
cggcggtggc cgaagtcgaa gcgcctgctg cccccgtcga ggttgaggag actaaggagg 240
aggcgccggc cgccgctgag acggaggaga ccaaggagcc cgagcccga gctgcggccg 300
agccggaggc cgaggcgcca gccgtggtcg agacagagac caaggaggcc gtggctgagg 360
cagagccggc ggtggtcgag gaggtgaagg aggaggcggc gcctg 405

<210> 82

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b04b1

<400> 82

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gaagggcatc tccacgaacg tgacgttccc gacgggtcaag gcgaagctgc ggctgctgtt 120
cgagggtggc ccgctggggg tcttgataga gaaggccggg gggcacagca gcgacggcaa 180
gcagtcggtg ctggacaagg tgatctccgt cctggacgag cggacccagg tggcctacgg 240
ctccaagaac gagataatcc gcttcgagga gaccctctac gggtcctcca gactcgccgt 300
cagcgccacc gtaggcgcca ccgtctgata atcgatccat cttctttttt tacgcttttt 360
tcaacctgaa aaacaagatg tccgttatag agttcgctg aagcat 406

<210> 83

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b05b1

<400> 83

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acgtgagcct gtctaccttc gcgcccacgg ccaggggcga cgctctcgcc aggctcagg 120

tggccgcccgc ccgcgtcacc ttcccgcacgg cgtaccgtgg cagcgggtgcc ctctcctgca 180
 gggcggggtgg gccggccacg ccgcccgggca tctccgacaa gatgtcggac agcatcaagg 240
 agggcccagga gacgtgctcg gaggacgccg ccagcgggga gtgcgcggcg gcgtgggacg 300
 aggtggagga gctcagcgcc gccgccagcc acgcccggga caagctcaag gactccgacc 360
 cgctcgagaa ctactgcaag gagaaccccg agaccgacga gtgccgcacc tacgacagct 420
 gagcgtacgt gctaatttgt tctggacg 448

<210> 84
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003b06b1
 <400> 84

cttgctgcat ccagtccaca ccttgtaaag ggggtcacgt tgcttaatgc aacgccattt 60
 tgggggtttcc ttcctaatacc tgcaagatct cctcgtttgt caaagatttt tccatgggct 120
 gggacatttc ctcttccatc agttgtgagg aaacttactg aaacagtgtg gcagaagata 180
 agcgacccaa gaagtataca gaagatactc aggcaagtat atgctgatca ctcaacaaat 240
 gttgacaagg tgttctcacg tattatagag acaacagaac acccagcagc tgctgcatca 300
 tttgcctcca ttatgtttgc tccaatgggc cagatatact ttcaggaggc actatctagg 360
 tgccaaaagc aggacattcc catttccctt atgtatggga aagaagatcc ttgggttaca 420
 ccttattggg gtatc 435

<210> 85
 <211> 62
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003b07b1
 <400> 85

aaatataaaa aatttttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aa 62

<210> 86

<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b09b1

<400> 86

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caggaggagg gatcgcgcg ggccgcctcg cggaggagcg caaggcctgg cgcaagaacc 120
acccccatgg attcgtcgcg aagccggaga cgggtggccga cgggtcgggtg aatctcatga 180
tctggaactg caccatcccc ggaaagcagg ggactgattg ggaaagtgga tactaccac 240
ttactctcca ttccagttag gactacccta gcaaacctcc caagtgcagg ttcccgagg 300
gttttttcca cccaaatgtc tacccttcag ggacgggtctg cctctcgatt cttaatgagg 360
atagtgggtg gagacctgcc atcactgtta agcagattct agttggaata caggatttgc 420
ttgatcaacc taatccagct gat 443

<210> 87
<211> 106
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b12b1

<400> 87

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gaccaagaac cataggtgga cgacaaggcg ccgaagccca aaacaa 106

<210> 88
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003c01b1

<400> 88

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agtactgttg cctgttgggt agctggtcgg gttatcttgt agcgggttag tcgtggggag 120
cagcatcgga ttacctggt ttctagtctt atcatggaat ttaggggctt tgtgcaaata 180

tcggttttgc cctgcgggtt gcttgtatgc ttgggttggtg ttcagctcca aaatgctggc 240
cggaagtaca ttttgtggat tccatttgg 269

<210> 89
<211> 181
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003c02b1

<400> 89

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ttgctgctct ctgcgtgtat tcgttgttgt tttctgcatg tgttccacct ccatctgttg 120
tccttgttac agatcgagca gattactgat cgaatcatca ataaaataat gtgttgagcg 180
g 181

<210> 90
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003c03b1

<400> 90

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gaaatctcaa gaggcggcac catgctcgtg taccaggaca agctttccgg cgacgagctt 120
ctgtcggatt cgttccctta caggagagctg gagaacggcg tgctctggga agtcgatggc 180
cattgggtcg ttcaaggagc agttgatgtg gacattggag ccaatccctc tgctgagggt 240
gggtgtgatg atgagggtgt tgatgaccag gccgtgaagg tggttgacat tgttgacacc 300
ttccgtcttc aggagcaacc tgcttttgac aagaagcagt ttatctctca catgaagcgc 360
tacatcaaga acctctctgc caagcttgaa ggggatgacc tagatgcttt caagaagaat 420
gttgagtccg ccacaaagta tcttcttagc aagctcaagg accttcagtt ctttgttggc 480
gagagcatgc atgatga 497

<210> 91
<211> 131
<212> DNA

[illegible]

<400> 91

<210> 92

<211> 270

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003c05b1

<400> 92

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ccaagcaca | aatattggaa | ttatttgagt | ccatgtcaag | ctagaccatc | agttgcacaa | 60 |
| atattcgagt | acacgtaaaa | ctagaccctt | cctgagcaca | catatttgtc | aatctggcgc | 120 |
| atccacaaga | gacatacatc | catatgaagg | gatccataag | ttgacatgat | catttctagg | 180 |
| gcatgaccag | taagaatgag | tgcgaaggac | ttaaggatca | caactgaaca | agcattgctt | 240 |
| taaaaaattg | ggttcagctt | tgctatcctg | | | | 270 |

<210> 93

<211> 242

<212> DNA

<213> Triticum aestivum

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<223>      Clone ID: uC-tsfl189003c07b1
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<400> 93

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| ccattcgtc | cgcccacgc | tccgcccacg | cgtccgggtcc | ttctcctcct | cctcattcct | 60 |
| accttagcgc | tgcattgctgc | atgcatgcaa | cgatagacgt | gggctgatca | tctcctgtgg | 120 |
| aatagctcaa | catctaaccg | tatcatcaag | aggagagaca | agggagagga | gatctcacat | 180 |
| gaattattgt | tatttaatta | gccaggcata | aataaaaact | accaaccgat | ttgttggttg | 240 |
| tt | | | | | | 242 |

<210> 94

<211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189003c08b1
 <400> 94
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 ctggcttcaa gaaggatgag aagcagctgg acgctgagat tcaccgcaa tacatctatg 120
 gaggccatgt tgctgactac atgaagtcac tggctgatga ggaacctgag aagtaccaat 180
 ctcaactcag tgagtacatc aagaagggga ttgaggctga taacatggaa gcactgtaca 240
 agaaggttca tgctgccatt cgtgctgac ctaccatggc aaagtcaacc aaggaacctc 300
 caaagacgca caagaggtac aatoccaaaga agctgaccta tgagcagagg aaggccagtc 360
 tcgtggagcg gctcaacgcc ctcaactcat ctgctggtgc tgatgtcgat gaggacgacg 420
 acgaatgagt g 431

<210> 95
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189003c09b1
 <400> 95
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 gaagcagaaa cccctgtaga gttgggttctc gtgatgacgg tcgagcctgg ctttggtggc 120
 cagaagttca tgccggagat gatggataag gtgcgtacgc tgaggaagaa gtaccctgcc 180
 ctgcacattg aggtcgacgg tggcctgggt ccttccacca tcgacgccgc cgcgtcggcc 240
 ggcgccaact gcacgtcgc cgggagctcc gtgttcggcg cgcccgaccc cggagaggtc 300
 atctcggcgc tgcgcaagag cgtggaggcg tcgcagatca agagctgac atctgtagct 360
 ctgcgcgctc ggacggacgc atgtttctgc tgtaaactag aaccactctg cacgaccgac 420
 gtcggtcag cagt 434

<210> 96
 <211> 299
 <212> DNA

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

<400> 96

<210> 97

<212> DNA

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<223>      Clone ID: uC-tsfl189003c11b1
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<400> 97

| | | | | | | |
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| cgccacgtac | atagttcaca | tggccaagtc | tgccatgccg | gccgagtacg | ccgaccacgg | 120 |
| cgagtgggtac | ggcgctctcc | tccgctcggt | gtccaccggt | cgcgccgcgg | ctgccaaagt | 180 |
| gctttactcc | tacgacaccg | tcttgcaagg | cttctcagcg | cggctcacgg | agcaggaggc | 240 |
| cagcgacatg | gcggggcatg | acggcgctct | ggccgtgaac | cccagacgcg | ggtacgagct | 300 |
| gcacaccacg | cggacgcctg | agttcttggg | gctcgccggg | agcgagggcc | tgttcccgcg | 360 |
| gtctggcacg | ggcgggcgacg | tcgtcgctgg | ggtgctcgac | accggcgctct | ggcctgagag | 420 |
| caagagctac | aacgacgc | | | | | 438 |

<210> 98

<211> 155

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003c12b1

<400> 98

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tggtggcccc tttcatcaga tctcgatgag caaggccggc attgtgtatc tgtgatttct 120
gtggtaatgg ttaaagatgc aatcctttca atctt 155

<210> 99
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003d01b1

<400> 99

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cgcacggtct tagcttgctg gctggcaagc tagtactgga ctgcctgccg tatttttgaa 120
ggattaacga caacatatac gattgactct cgagcgtctt gtactataca ttgtgtaa 180
gaacgaaaca atcttagtag tccgtttcac aagatcggct tatgtgtatc a 231

<210> 100
<211> 147
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003d02b1

<400> 100

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gggctgtatc catccatgtc ttttgaaaaa tgctacgtgg ctactcttaa tgtagtgtga 120
tactcgtata aaagcaatct gtttgtg 147

<210> 101
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003d05b1

<400> 101

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atgaatgcag aggggtgctgc tttacaagga tctggatggg tgtggctagc tttggataaa 120
gaggccaaaa agctttcagt tgaaactact cctaatacagg accctcttgt gaccaaaggg 180

taatcatcgg tagacaaaga acaagggcga agttgccgcc atgctatatt attgttacgt 180
 cttgcttcag cggagctgca ctctcatggt cgtcgtccct cccccctacc ccaccctagg 240
 ttaccaccg gcagctgcag caaggtctct ttgtcgaggc atcgggcgat ccatttggtt 300
 gatttctctt cttcctgcct tgtgattatc tcgtgtgact gacaagtcgt ggcaatttag 360
 gtaacttgct tagtagacgg tatttcccgt gtttgagacc ccgtaaaaaa aaagtatctc 420
 gttgttatct cggttccata agtagagaca tgatgtaatc gcactcagtt tattttattt 480

<210> 105
 <211> 481
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003d11b1
 <400> 105

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 gcgggcatga tgaagaagca ggtcgtgacg gcgctgatgt tggcgctggt ggtgctggcg 120
 gcggcgccgg gcggggcgcg cgcggcgtgc caggcgctgc agctggcggg gtgcgcgtcg 180
 gcgacacctt ccggggccaa gccgagcggc gagggtgctgc gcaacctgcy ggcgagcagc 240
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 gcgcgcgaca ccctcacctc ctgcggcctc gccgtcccgc actgctaggc gccggcaggc 360
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 g 481

<210> 106
 <211> 231
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003e01b1
 <400> 106

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 cgcacggcct ttgcttgctg gctgccgagc tagtactgga ttgcctgccg tatttttgaa 120

ggattaacga caacatatat gattcactct cgagcgtctt gtactatata ttgtgtaa 180
 gaacgaaaca atcttagtag tccgtttcac aagatcggct tatgtgtatc a 231

<210> 107
 <211> 330
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e02b1

<400> 107

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 tctgtattac aatttggtgg aggaacttta ggacatcctt ggggaaatgc acctggtgca 120
 gcagctaatac gagtggcttt agaagcctgt gtacaagctc gtaacgaagg ggcgcgatctt 180
 gctcgcaag gtaatgaaat tatccgagca gcttgcaa at ggagtcctga actagccgca 240
 gcttggaag tatggaaggc gatcaaattc gagttcgagc cggtagatac tattgataag 300
 tagataaaac taaagataaa gaagagaagg 330

<210> 108
 <211> 196
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e03b1

<400> 108

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 agacctacat tcgttgtaca gcgaacctaa tatgattaat taattagatt atgagaattt 120
 ggttttgcga actgtcttat cttctgtact ggaatattga cataaatata gatcatggta 180
 attttctttt cctgtt 196

<210> 109
 <211> 131
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e04b1

<400> 109

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 atacatatgt gatggaaatt tgtagaatgt gtgttctgag atatttccgt aatattcagc 120
 taattcgtgg t 131

<210> 110
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003e05b1

<400> 110

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 tccgttcccc caccacacgc ctgcgcggcg ggcggcgacg cgacgagacg agagcggcgg 120
 cggcgccggc ggaggcagga atgcggatgt tctccaaggc ctgctcgctc gtcgtctcct 180
 ccctcccgcg ctgctcctcc tccgcccccg cgattagggg ccagccgtcg ttgataccga 240
 ggggtgagcag gaaatggctc gggaagccgc tcatgtacgg gatcggcacg ctgctggtca 300
 tgcccctgag gaccatccac ggggtgggccc ggatgttcgg cgccgcgcgc tacctctgca 360
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 atgcgtacat cttgcatgat gtggata 447

<210> 111
 <211> 132
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003e06b1

<400> 111

cccatctcgt ccgcccacgc gtccgcccac gcgtccgccc acgcgtccgg tacgatgtta 60
 cgaaataagt tgcttcaata acttatcaga atgtaccag gattgcaatg atttgtcaaa 120
 ctagtttaga gg 132

<210> 112
 <211> 307
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e07b1
 <400> 112
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 aagcggcaac caaatgcgca ttccattgag tttgtatggt gggctgctct ttgcacaagc 120
 tgtgtgctta tgagggtgctg gtacttatcg aggacagcag gggggtagcg tactcgtggt 180
 gttgcactat gttttgtttc tttgttatat ttttgagtgt ttgatctgtt tgagcctttg 240
 tgacctgaga aaataaaaat aatatgagtt acctttgtta atttaaaaaa taaaaaaaat 300
 aaataaaa 307

<210> 113
 <211> 472
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e08b1
 <400> 113
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 gctactcgga gcgccagccc atcggcacgg cggcgcaggg cggcggcgcg gacgagaagg 120
 actacaagga gccgcccccg gcgcccctct tcgaggcgga ggagctcacc tcctggtcct 180
 tctaccgggc cggcatcgcc gagttcctgg ccaccttctt ctctctctac atctcgggtgc 240
 tcaccgtgat gggcgtggtg ggcaaccctg ccgggtccaa gtgcggcacc gttggcatcc 300
 agggcatcgc ctggagcttc ggcggcatga tcttcgtgct cgtctactgc accgccggca 360
 tctccggcgg acacatcaac cccgcgggtca ccttcggggt gttcctggcc aggaagctgt 420
 cgctcaccag ggcggtattc tacatggtca tgcagtgcct gggcgccata tg 472

<210> 114
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e09b1
 <400> 114
 gttgtgcttc tcctccccac tcagtcctcg gttcccggtc cggttcgggt ccgttcgggt 60

cgttagggtt tagtagcggg gaagaggaag gcatggcgga cgtcgagtac cgctgcttcg 120
 tgggcggcct cgcctgggcc accgacgacc agtccctcca gaacgccttc tccaagtacg 180
 gcgacgtcat cgactccaag atcatcactg acagggagac gggccgttcc cgcggttcg 240
 ggttcgtcac cttcgcgtcg gacgaggcga tgcgccaggc gatcgaggcc atgaacggcc 300
 aggacctgga ~~cg~~ggccgaac atcacctca acgaggccca gtcccgcgcg tccggcgag 360
 gcggcggcgg cttctgcggc ggcgggcg gcggcggc 398

<210> 115
 <211> 469
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003e10b1
 <400> 115

gcgtatttgt ttacggctaa ttgcatcgcc ggtgatgcgc gagatcttga aagattccat 60
 cttgtttggc cgctccggcc aggggagagc tgcgccctct tgatttcagt gccgccacca 120
 cggctacttt ggcattaaac tacggacggc gtcgcggtc cgtcggggaa tcagatcacg 180
 tcgtgatcat catcagatta aaacaaacaa acgaacacga attcatcttt gccttgtcat 240
 ctctgtctgg actgtgcgt gattggattc gatccgtgtg ttgtttgctt gcgtgcgcgc 300
 agatgggccg cgattgccgc ccggctgccg gggaggacgg acaacgagat caagaacgtg 360
 tggcacaccc acctcaagaa gcggctcgac cccggcgcg gcaggagcagct cgaggaggcc 420
 agcgccgcta agaagcgcaa gaagccggcg gcggcggcgc ggaagcgcg 469

<210> 116
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003f01b1
 <400> 116

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 caaaataaat acttggtaaa taaatttatt tggcaacaaa cattgttgaa tgttctgtgt 120
 accttcattt tttcctgaag aaaaacttag taaaaacaaa attttaaat atatttactt 180

tttttatatt attgttcattg gcctgcattt gacccgcgca acagaaactt cacgcccgc 240
aaagcgccaa agtgggtgata ctacattgac tggataaaaa ttctttgtgt tgtgtccctc 300
ttctttttttt gagaacctgc gttgtgtcat cctaaacaat cactcacttc aagttttcaa 360
ctgctactat gaaagaaaaa atgcgcaccc ccagaccaaa 400

<210> 117
<211> 323
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189003f03b1
<400> 117

aaaaaggaac aaccccccaa aaaaattaaa aaacacgggg gggggaacac caaactgttt 60
catcccccaa agaaggaaca aagccccaca aaaaaaaaaa aacccccgggc ggggaacccc 120
ggcaccacca aaacacggtt aaaaaaaaaa aaaaacaccc cccacggggg gggccccact 180
gtcctaaagg ggacccccggg ggcccccaaa actgccacaa gaaaagggcg ccaccacccg 240
gggggggggg ggtatataat gaaccccccc ccccccggg atgacaacaa cccgccgga 300
actcctgggc cccccccccc ccc 323

<210> 118
<211> 418
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189003f04b1
<400> 118

cagggtctgc ctgtggcctc gcggggctcg ccgccggcat ggccattggc attgtcggtg 60
atgctggagt cagggtctaat gcgcaacaac caaagctgtt cgtgggcatg atccttatcc 120
tcattttcgc agaagcactt gccctttacg gtctcatcgt gggcatcatc ctctcgtccc 180
gtgccggcca gtcccgtgcg gattaggcgc ctcgctctac cattctgcaa ttgccacaca 240
ggctacattc ttgagaagct ttctaatttt gatgtattaa ggagatattt gtagattatt 300
aaggaagggtg acacttccag taccgttttc attctttttg ggttgtgggtg ggcgtttgct 360
gttcgtgcag aggatttttg ggtaggctgg attgctgctc ctgggaatat gggtttta 418

<210> 119
 <211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189003f05b1

 <400> 119

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 atcccacctt cggaacagca gccagcaagc gtcgccagcc atgtcggggc gcggcaaggg 120
 aggcaagggc ctgggaaagg gcggggacgaa gcggcacagg aaggtgctgc gcgacaacat 180
 ccaggggatc acgaagccgg cgatccggcg gctggcgcgg cggggcgcg tgaagcgcg 240
 ctccgggctc atctacgagg agaccgcggc cgtgctcaag atcttcctcg agaacgtcat 300
 ccgcgacgcc gtcacctaca cggagcacgc ccgccgaag accgtcaccg tcatggacgt 360
 cgtctacgcg ctcaagcgcc a 381

<210> 120
 <211> 315
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189003f06b1

 <400> 120

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 ggaggaactt taggacatcc ttggggaaat gcacctgggtg cagcagctaa tctagtgggt 120
 ttagaagcct gtgtacaagc tcgtaacgaa gggcgcgatc ttgctcgga cggtaatgaa 180
 attatccggg ccgatctcaa atggagtcct gaactagccg caccttgtga agtatggaag 240
 gcgatcaa atcgagttcga gccggtagat actattgata agtagataaa actcaagaca 300
 aagaagacaa tgtat 315

<210> 121
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189003f07b1

<400> 121

cccacgcgtc cgcccacgcg tccgggagaa cggcgccatc gtgtcggcat tgaccggatc 60

atatggtttc cctggtagca cgtcgttgca tttggcagct cgcagcgggg acttggattg 120

catccggaag ctgcttgctg ggggagctga tccgctccaa agggactctg ctgggtgaga 180

actagatccc tgccatgggt ctgccttaca cattgttggg gtatatatag cagcacagtt 240

tggttgctct gttggtaatc cagtagagta gactagccaa ttaacaagtg aactcactat 300

aaagcatttc ctgaatccat atttggaaag ttcactggcc cctgcttgta ctataacaaa 360

cttttatgtg ctcaattgat gaattaaatc ttatgtc 397

<210> 122

<211> 468

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003f08b1

<400> 122

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agcacaacgt cgccaaggac tgctggctcg tcatcgccgg caaggtgtat gatgttacc 120

ctttcatgga tgagcatcct ggtggagatg aggtactgct ggcagtaacc gggaaagatg 180

caaccagcga tttcgaagat atcggacaca gtgattccgc aaggagatg atggagaagt 240

accacatcgg ggaaattgat gtttcaacca tcccagcaa ggtacattt gtacctctc 300

agcaagggtc ccatgtccag gccaaaggata gcgacctcct catcaagatc ctgcagtttc 360

ttgttcccat tttaatcttg gggcttgcat ttggtatccg gcactacagc aaatctgagt 420

aggctgttgt tggcgagttg cttcggagaa atagctttca agtaatat 468

<210> 123

<211> 463

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003f10b1

<400> 123

agattccacc agctcctcc tctcttccc tcgccgccg ccgccgccg cccgctgagg 60

ttggtcgccg gacgccatgg cccccaccaa gaagtcgaag aagagcacgg agaacaatcaa 120
 caacaagctg cagctggtga tgaagagcgg caagtacacg ctcgggtaca agaccgtcct 180
 caagacgctc cggagctcca aggggaagtt gattatcctc gcaaacaact gccctccgct 240
 caggaagtct gagatcgagt actatgctat gctgtccaag atcagcggtc atcatttcca 300
 tggaaacaac gtggatcttg gaactgcgtg tggcaagtac taccgggtgt gctgtttgag 360
 catccttgac cctggtgact cggacatcat caccaccgtt cctcagtga gacaagctta 420
 cctatcctag cctaagatga tgtagtgtgg agagtcgtgc tta 463

<210> 124
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003f11b1
 <400> 124

cttttacggc gacgacacca ggaaccacta ctaggccccg aggcggaggc ggaggccggg 60
 caaaataaga ggtgtggcct ggcgggggcg tctcagccag gcagcggcta ccacgggcbg 120
 gcgtgccgtg gtcttcttta tgacgaatga atgaatggat ggaagtggaa tggaatgaac 180
 gaatggtgtt tgatgacggc ggtgggtttg cttggccgtt ttaatttgta cagtttgttt 240
 tctccccctt tgttgtggcc gcttgcggcg gcgttaattt tagttccttg aagaagatgg 300
 atgatgttgt atttcggaga gatgtatgca ggccggcgcg gcgtaacgcc gctcgtttgg 360
 aatcccgttg gtttttaaat taa 383

<210> 125
 <211> 477
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003g01b1
 <400> 125

tttcggcctt gctccacgcc gccagcacca gccgcggctc cctctccggc ggcagggccg 60
 catcgtccag gaacgagtgg gtgctgtgca ggggtgtcaa gaagagcctt gtaggcggcg 120
 tagtgcgtc ggcgcggcg tgcgcagcag caaagaaaag cggcgtggag atgatcgagg 180

agatagggtc gtccgtggcc gccgtcaccc cgctccctgc gtccttgga atgtccggct 240
 ccggcgccctt cttcgacccg gcggcgcacg tgacctgctt ctccaacaac gcgctggagg 300
 cgggccagtt cttcaacccg acggtgacgg gcggctgcgc cacggacacg gacaaccacg 360
 gcctagcctc gtcatactcc ccgttggtcaa gcttcacgca gtacgggtggg cagctgcacc 420
 acggcgtagag cctgagcctg gtgcagctcc tggagagcag cgggtaccac cgtggtc 477

<210> 126
 <211> 220
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003g03b1

<400> 126

tcgaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaataaaat aaaaaaaaaa aaaaaagggg gggggccttt ttaagggtcc caagtttcct 180
 cccccgggct ggcaagggtat tattttttttt tttgggcccc 220

<210> 127
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003g04b1

<400> 127

ctcggtcgtc tcagaggcca ggctgccgcc tctgctgcc aggccgacaa ggccacttag 60
 agctatcggt gctgtttatc tatgtttgct gcctctagat taccgtcaa ggacatgtat 120
 tgcaatatgg atgtcgtttt tgctcggtac tttggtaacg tggatgatt tgttatcagt 180
 tttcgctgtc gtggtctgga ttcgtcggtc cacataaaga agattgtgct tggtaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatat aatggggggg gc 352

<210> 128
 <211> 292
 <212> DNA

gagcacacgg ccgccgccgt cgacgctgac cca

333

<210> 131
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003g10b1

<400> 131

cccacgcgtc cgccacgcg tccgaggaaa cttgtgggtc cttagatgaa tctacaaagt 60
tactcccaaa gttcactgtg aaacacattc tgttgcctc taacctttgt acgttatgct 120
gtataagatc tgattatcaa tttatctgtt gggaatctac ccgcctatgg gtttcctagg 180
agtacagaca gaccaggtga atacctactg ggaaattggt tgtaccatgg atctttgttt 240
gcgctgatgc agtttaacgg gaatagtggg ctttcaactt g 281

<210> 132
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003g11b1

<400> 132

cccacgcgtc cgctcctcgg ctgcacggac gggaagggag ggagaagaag gagcgcgaaac 60
gctcagcccc atggcctcca tctcgggtccc ggaccccgcc ccttccccga ccgaggatgc 120
agagagcatc agaaaagcag tgcaaggggtg ggggacggac gagaacgcgc tgatcgagat 180
cctggggccac cggacggcgg cgcagcgcgc ggagatcgcc gtcgcctacg agggcctcta 240
cgacaagccc ctccctcgca cgctccagga cgagctctcc agccacttca agggcgcgat 300
gacgctgtgg gcgatggacc cggcggcgcg ggacgccaag ctggcctaca aggccctcag 360
gaagaagggc ggcgaccggc acgcctgggt gctcatcgag gtcgcctgcg cgtcgtcgcc 420
ggaccacctc gt 432

<210> 133
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h01b1

<400> 133

gggatggtgg cgccgggttc gtcggtctcc gccggcgtgg ttggctcctg cttcacaacg 60
gagttgagcc actgctcttc ctcttcgttc ggcgtcacct cccactccat catggcgggc 120
acagggccat agcctggagg ggcgaagtgc tcctcgtctt cgtcggcggg cgtcggcggt 180
gggaggtccg ggtaggcgag tggctcgtcg atgacctccg gtttcggtgg tggagtggcc 240
ggcggtgagg ggcacggccc gtaccctgac acggggcaga aatcgcgggc agggcaaggt 300
ccgtatctgt gcaccggaca gaaggccacg cctgcatcca tgccgttgcc gaagaagatc 360
cctggc 366

<210> 134

<211> 477

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h02b1

<400> 134

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actcgcccct cggcgagcat ggcggcgggc ggatcagctg ctgctggctg tcacaagttg 120
ggggaggaga agctgatcat ccggccggag aagggtgcggt tcatcgacat cctgtccctg 180
ctgatcctgc gccggcccat caccagctac gccttcatcg acgccggcga ccagacgacc 240
cacgacgtcg gcgtcacgcc gggcgacatc ttcgtcgtgc tcaccagat catccagaag 300
gccctcgctg ctgcctacta cccggcaaag ataatcgggg ccatcgtcga gctcctcttc 360
aacttcttcg cctcaacgg aggcctgctc ggcatcgat ggaacatcat cagatttaag 420
ctggtgatcc cgcgccggga ggcggccaac taccggacga tgatcgggat gatcgac 477

<210> 135

<211> 355

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h05b1

<400> 135

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agcccatcgg cgacctcgcc ggagaagaga gaagaaggtg agagatggag gcggcggcgg 120
cggcggccgg cgtgcagctg ggcacctcga agccgcagat cgcgacccag gcggagatgg 180
cggaggcgcg cctgccgata cctaccgcg accagtgcgc gcacctctc atcccgtca 240
acaagtgccg cgtcgccgag ttctacctcc cctggaagtg cgagcccag cgccactcct 300
acgagaagtg ccagtacgag ctctcatg agcggatgct ccagatgcag aagat 355

<210> 136
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h06b1

<400> 136

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cgggtcgggt tcgcggcggc cgaggcctgc ggcgcctgt cgttccacag gtgcgacgcg 120
gtgcgcgtcg acggggccgg ggaagtctcc gtgcggcggg gcatgtccgc ggacgtggag 180
cgcgcggtca cggtgagcat ccggaggtgc aagggggccg cgcgcgtgca cggcgccgtg 240
gagctgcgcc tcgggcgggt cggggaggcg gacgtgggca tctgctcgga cgtggcgctg 300
gggcgggtgc gcgaatcgcg cgctactgg tgcggctcgc tcggcgtctc gcggtgc 357

<210> 137
<211> 53
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h07b1

<400> 137

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<210> 138
<211> 493
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h09b1

<400> 138

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atcgggcaat cttattggga ataacaaggg cttccctgaa tacccaaagt ttcataatctg 120

aagcaagttt tcaagaaact gctcgagttt tagcaaaagc tgccttacga ggtcgcattg 180

attggttgaa aggcttgaaa gaaaacgtag ttctgggggg gattatacct gttggtaccg 240

gattccaaaa atttgtgcat cgttccccac aagacaagaa cttttatttc gaaataaaaa 300

aaaaaaatct attcgcgtcg gaaatgagag attttttggt tctccatata gaattagttt 360

cttcagattc tgacgtaaca aacaattttt atgagacata agaaccacca atatggtgta 420

cacacacaaa ttatgtaaaa acaatcaacc atttactgaa catttggaat aagcgtgaat 480

acatttgtagg aat 493

<210> 139

<211> 407

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189003h10b1

<400> 139

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ccgctccaac ggcgctagcc tcggcagcgt cagcaacggt ggaaggatca ggtgcatgca 180

ggtgtggccc attgagggca tcaagaagtt cgagaccctg tctacttgc caccgctcag 240

cacggaggcc ctctcaagc aggtcgacta cctgatccgc tccaagtggg tgccttgccct 300

cgagttcagc aaggttgggt tcatcttcg tgagcacaac gcacccctg ggtactatga 360

tggccggtac tggacaatgt ggaagctgcc tatgttcggg tgcaccg 407

<210> 140

<211> 217

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189003h11b1

<400> 140

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 ccgcgcttgg ccgccggaca gtcttgtgta ccaactacac gagtggcggc cggatgtcgt 120
 gcaggaaccc gctgatgact aggaacctgg agaggaacgg caggatcacc tgcattgacgc 180
 tccccgcggga ctggctgcag agggacctga acgagat 217

<210> 141
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189003h12b1
 <400> 141

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 cggacgcgtg gggtagacc atggccccca ccgtgatggc ctcgtcggcc acctccgtcg 120
 ctctttcca ggggtcaag tccaccgcg gcctccccgt cagccgccgc tccaacggcg 180
 ctacgtcgg cagcgtcagc aacggtggaa ggatcaggtg catgcaggtg tggcccatcg 240
 agggcatcaa gaagtgcgag acctgtcct acttgccacc gtcagcacg gaggcctcc 300
 ttaagcaggt cgactacctg atccgctcca agtgggtgcc ttgcctcgag ttcagcaagg 360
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 caatg 425

<210> 142
 <211> 116
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189004a02b1
 <400> 142

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 aaaaagaaac gaataaataa aaaaaaaaaac tgggtggctc ttttttgggg acccag 116

<210> 143
 <211> 478
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004a03b1

<400> 143

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tcgaggaggt gggctacaac cgcgccaccg gcttcgtctg gctgcgccag aagaaggcgc 120
tcacgcacac cttcaagcag atcgggcggc aggtctcgta cggcaccgag gtgacggcct 180
tcgtcgagga ccgcaagatg aagcgcataa cgggggtcaa gagcaaggag ctctcatct 240
ggatcacctt ctgcgacatg tacatcgaga aggacgatcc ctccaagatc accttcaaga 300
cgcccacagg gctggggagg accttccccg tctccgcctt cgagaagcag gacgacggca 360
aggccaaggc cgcggctgcc gacggcaagg aggcgctcgt ggccaagtag gtgaggacgg 420
ccggcatact ctacaaagtt tggatgaaga gtcctcgagt ccaatattaa ctatatac 478

<210> 144

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004a05b1

<400> 144

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tccgggcat cccgctcggc ggctacgtcg gcttccccga cgacgacccc gactccggct 120
tcgcgcccga cgaccccgac ctcttcgca accgccccgt cccggaccgc ctctcgtcg 180
tctccgctgg ggtcatcgcc aacctcatct tcgccttctt catcatctac gccagggcgg 240
tcaccgtcgg cgtccccgtc caggcgctgc tctccggcgt cctcgtcccc gacgtcgtgc 300
ccggctccgc cgccgcgcgc tccgggctgc tcgcccgcga tgtcatctc gccgtccccg 360
gcgccgcgcc ggacccatcc gtgccggccc tggtcgacct catcaaatcc agccccaaca 420
aga 423

<210> 145

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004a06b1

<400> 145

tggacgtatg tacggccgcc tgggccaca cctggatgga gtcctgaact agctcgcagc 60
gttgtgtatg tcatgggacg cagagcaaac cgccgttcta gccggaggat actatttgat 120
cagtgctagc cttggcagcg tcagcaacgg tggaaggatc aggtgcatgc aggtgtggcc 180
catcgagggc attaagaagt tcgagaccct gtcctacctg ccaccgctca gcacggaggc 240
cctcctcaag caggtcgact acctgatccg ctccaagtgg gtgccttgcc tcgagttcag 300
caaggttggg tttatctttc gtgagcacia cgcattctct gggactacg atggccggta 360
ctggacaatg tggaagctga ctatgttcgg gtgcac 396

<210> 146

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004a07b1

<400> 146

tataacctaca tagtacagcc atggcccca ccgtgatggc ctcgtcggcc acctccgtcg 60
ctcctttcca ggggtcaag tccaccgccc gcctccccgt cagccgccgc tccaacggcg 120
ctagcctcgg cagcgtcagc aacgggtggaa ggatcagggt catgcagggt tggcccatcg 180
agggcattaa gaagttcgag accctgtcct acctgccacc gctcagcacg gaggcctcc 240
tcaagcaggt cgactacctg atccgctcca agtgggtgcc ttgcctcgag ttcagcaagg 300
ttgggtttat cttccgtgag cacaacgcat cccctgggta ctacgatggc cggtactgga 360
caatgtggaa gctgcctatg ttgggtgca ccga 394

<210> 147

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004a08b1

<400> 147

agcggcctca tttgccacgg cagaggtagc attcatcctg caatcagccc agggccgtgc 60
ccttcagttt accatcgctc cagactcccc aaccaccca cagcatgagc cacagcagca 120

gcagcagcaa cagcaatagc taaacgaccc agtagttcca caagtactgg cataatgcgt 180
gcttgaagat gtaggtctgg gtgcctatct tgctgttggg gctggctcct caggaatgct 240
aggaagcctt cctgtggcca cgtaaaaacc tcgtatgggtg tcagagtctt atttgtctcg 300
agcaatgtga ctaaacctgt gtgtctgaat gtaatttaag cattgattta atgtaaattt 360
aacatctatt acctttacta ttttgggtgca acccgagtct tgtgctctaa gcgcaatgat 420
ttgatggg 428

<210> 148
<211> 503
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004a10b1

<400> 148

gcaaacttat cttgaggcta gccaccatga agacaatgtt catcctcgct ctctcgccc 60
ttgcagcatc caccgccatt gcccaattgg aaaccatatg tagccagggc ttcggacaat 120
gccaacacca ccaacaacta gggcaacaac agttgctgga tcagatgaag ccatgtgtgg 180
ctatcgtaca acatcagtgt agcccagtga gaacaccatt cccccaaca cggggagagc 240
agcatagcag ttgccaaacc gtgcaacacc aatgctgtcg gcagctagtg cagatcccag 300
aacaagcccc gtgcaaggcc atacagagcg tggaagaggc tatcattcaa caacagcccc 360
aacaacaatg gaatgagccc caacaggaag cacaccttaa gagcatgagg atgtcgcttc 420
agaccctgcc gtctatgtgc aacatctacg ttccggtaca atgccagcaa cagcaacaac 480
tggggcgaca acaacaaca cag 503

<210> 149
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004b01b1

<400> 149

cccacgcgta cgggtgggttc taggttagcg cgcagttggg caccgtaacc cggcttgctg 60
ttcatcccg cgtggattcc ttttgcagaa ggaacttgac tacctggatg gagctgtttc 120

aaaccctaag cgccattcg ctggcattga ggggtggctca aaggtggcgg ccaagattgg 180
 ggttatcgaa accctgggtg agaagtgtga tacccttctt ttgggtgggtg gtatgatctt 240
 cacattttac aaggcacaag gactctcagt tggttcttcc ttggttgagg aagataaact 300
 tgagctggca acatctgtcc ttgcaaaggc aaaggcaaag ggtgtgtccc ttctggtgcc 360
 atctgacgat atcattgctg ata 383

<210> 150
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004b02b1

<400> 150

cctgcaaagc ctgctgcagc accagctgcg aagcccgac ctgctgagaa accagcaccg 60
 gcagctgctg atgtagccaa gcagattcca gctggcattc caggtagccg ggccaacaac 120
 tattaccgtg cagatggcca gaacacgggc aacttcctta cggaccgtcc ttcaaccaag 180
 gttcatgctg ctccctggcgg tggctcgtcc ctgggctact tgtttggcgg aaagtgatgt 240
 taatgatggt gcctgcttaa tgaacgagcg atgaattggc ctgtatctct gttatccatg 300
 tggtgaaaac tggaagtgtt tggtttgagc agtttaccac ctgcgtcgat gtactctgtc 360
 tgtatggttc attgtgtcca agctgacc 388

<210> 151
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004b03b1

<400> 151

cgctgggtat ccgcaatatc ctctacgac ccacctcca gctgggtatc ccgctcaagg 60
 gccaccaatg caggttcctc cttatgggtca agctcctatg tacgggggag gcagccatgg 120
 cgtagcaggc ggtatgattg ccggcggcgc ggcagcggca gccgcagcat atggagctca 180
 caaggtgtca cacggcggcg ccacggaat gtacggccac gggcaccacc acggcaagtt 240
 caagcatggc aagttcaagc acggcaagtt tggcaagcac aagaagatgt acgggcgcaa 300

gtggaagtga agaggggaaa agatacggct actcggatgt acgtacgtac tacgtagaca 360
 acatgtagac ccgtataatt cgccatcttg ctctctcaca tctcaccaat gactcctcgc 420
 ttgtgccgct cagaagggga aaaaatgtga tcacct 456

<210> 152
 <211> 194
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004b04b1
 <400> 152

gagcaatttg ttttcctgaa catggctgta gctgtgcgtc aagctcaaac catttgttta 60
 tcttagtttt gaacaaaaga aatcttattg tcttatgtaa attctgttta ccgatgtagt 120
 tggatgctac caaatggatc tttgaatgtt gaaatactga tgttttgagt cattatgtgt 180
 ttgagatccg gtac 194

<210> 153
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004b05b1
 <400> 153

gctatatacc tacatagtag agccatggcc cccaccgtga tggcctcgtc ggccacctcc 60
 gtcgctcctt tccaggggct caagtccacc gccggcctcc ccgtcagccg ccgctccaac 120
 ggcgctagcc tcggcagcgt cagcaacggt ggaaggatca ggtgcatgca ggtgtggccc 180
 atcgagggca tcaagaagtt cgagaccctg tcttacttgc caccgctcag cacggaggcc 240
 ctcttaagc aggtcgacta cctgatccgc tccaagtggg tgccttgctt cgagttcagc 300
 aaggttgggt tcatcttccg tgagcacaac gcatcccctg ggtactacga tggccggtac 360
 tggacaatgt ggaagctgcc tatgttcgga tgcaccgacg ccacgcaggt gatcaacgag 420
 gtggaggagg tcaagaagga gtaccctg 448

<210> 154
 <211> 394
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004b07b1

<400> 154

cccgactcac caccgcgctt ctctctctc cgcgtcacc acccatggcg acggctatga 60

tggtgcagc caccacctc tgctccccgc gccgagcgt cctcaagccc gcggcctcct 120

ccagctccgc gccgccgcc aggccgcagc ctcggtcctt cctcaagcag ctcccggggc 180

tcgccgcgac ggcggtgcg gcggccgtcg cctcgtgcc tctcccggcc ctggccgtgg 240

agatggagaa ggcggtgcg ttcgacttca acctgacgt cccggcgatc acgatcgagt 300

tcctgctgct gatggtggcg ctggacaagc tctacttctc gccgctgggc aagttcatgg 360

acgagcggga cgccaagatc cgcgcggagc tcgg 394

<210> 155

<211> 509

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004b08b1

<400> 155

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tctcaatcac tactgccagt agctagctta agcttgacgc tgctgcttgc gctccgactt 120

caagcttttg attcgccggc atactcaagc taagcttctc atggcgccgg cgtcgaaggt 180

catgagtcac atcgtccaag acggcgccat tgccacctac gccgtttacg ccgcgccgtg 240

tgatgcctgg tgcagcgggc ggcataggaa ggccgagacg gacggcgacg acgacgatga 300

cgactatgac tgcgcgcctg ccgcctgaag tgtacgtacg ttcgtacctg gtcgccggcg 360

aaacgaatct gggacctgcc cgccaagagc tagtatatat actgcgaact gatcgctgct 420

gctgtgtatg ctaatacgat gtcaagtacg taggtacgta tatgcgtctg ttacagcta 480

cttatgaatg tatccccctt agtatatga 509

<210> 156

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004b09b1

<400> 156

cgtcgtttca tggcgctcgc cgacgtggcg gacgacgtgc accggtgggt gcgtgaggcc 60
gcgacggacg agcacttccg gggcttgatc gactgggtgg aggcgctcgc gcccaaaccg 120
gccgcggcca gggcgtaact gggcggcacc ggcggcacca aggcgacggc gtgcatcgtg 180
tcgtcgggca tgggttttcc ggtccgggag atcaactttg ggacgggcct gccggcgcttc 240
gcttcgtacc acttcccgtg gcccgcgggc gcggcatacg tgatgccgat gccgagtgcg 300
cgcgacgacg gggaatgggt ggtgtacgtg catgcagcgc cggagctggg gaaggtgatg 360
gaggaggagc cgactgtttt caaagtcttc gagaacagct acgtgttcgg atg 413

<210> 157

<211> 475

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004b11b1

<400> 157

cccacgtgtc tggaggttgg atagcttggt tgaaaaaagc tcagacctga gtgctgcttc 60
acagatgttc tataagcagg cgaagaaaac aaacagttgt tgtactatac tttgaagttt 120
gaagtgtgat cctgcaatta tcttggaagg ctccagggtta atgctgtttt ccgacaaaga 180
tcctgatact gttatacttg ctccctgtac cttcagttac gcctctgctc ccgtttctca 240
gaaagaaaat caaccggata ttgttgtgct gtactaagtc tggttgcccc tgaaagtgtc 300
tgtgaggcac gggatcaata ctgtaaatct gttattcttt ggtgacgcct tcgaatagca 360
actaacatca cttagcaatg gccaacatca ttgtcttccc tgcttagatt gtcgctatct 420
catttctcaa gtatgttgga gcacagctgc tgcccttaca ttatgtactg tatgt 475

<210> 158

<211> 157

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004b12b1

<400> 158

tcattctttt ggagggggtg cgtccgtgcg tggccagggtg gcgcatgata acttggatag 420
taaggatata ttatctccac aggaagtcct caatacgata cacatagaaa ttcac 475

<210> 161
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004c03b1

<400> 161

gcccttggat tcgggtatgc cgctccacc ttgagtgcta cttcatcaa tggcgctcctt 60
ggccccaga ccagaccgga aatgatacg gcgcgcatgt ccatctacat cgagaacatc 120
cacaagggca tccatgggag cgattcaggc gcgtatgact ctcaaggaag gttcgttccc 180
gagaagttcg aggcggcatt cgccaagcac gccaagacgg tgccggacgc cctgacgtcc 240
gcggaggtgg acgagctgat caccgcgaat cgggagccca gcgactacgc gggatgggag 300
ggcgcgctcg cgagtgga gttgctgtac agcatcggca aggacaagga cgggctcctc 360
cgcaaggacg ccgccagggg cgtctacgac ggcagcctct tcgccagggt ggtgcaggag 420
cggaggacat ctataggaga aaccaggca tgatc 455

<210> 162
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004c04b1

<400> 162

ctagagccac agctacagca atggaagctc tcgctcgtc gccgcgggct ctcttcgccc 60
gcaccgcctc tccgacgacg gcgctgggtca cgccagcaag atggacgccg tcatcgagca 120
ggcgtgtcaa ggccgccgcc gccgccgagc cggccggcga ggccaagccg gctgccgcag 180
cggcgccgctc ggcacccaag aagatcctca agaagaagcc cgtatactcc atgaagaaag 240
ggcagatcgt gcgctcgag aaagaaaagt atctgaacag catcaattac ctatcagtg 300
ggcaccacc cttctacaag gggctagact acatatatga agaccgcggc gaggttttg 360
acatcagaat ctttgaagag accggagagt atgctctgat cgcgtgggtg gggattccaa 420

ccccgccggc atggctccca acttatatgc tcatcaagtc agacaaactc gact 474

<210> 163
<211> 92
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c06b1

<400> 163

gatcttggtc tcgatgggtc tgaaattatg cgcgcaactc ggagatggag tcctgaacta 60

gccgcagctt gtgatgtgtg gaaggtgatc aa 92

<210> 164
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c09b1

<400> 164

gcgcaatgtc tgggtacccat gtacgtggcg accaagatgg cctcgatcag gcaggcgctc 60

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cctcgggtgcg cgccctactg gccgcacgct ctactgtggt tcctcttctc cgtgggtgccc 180

gagcccctcg tcgatgggta cgtcctcggc atgtccctcg gtatacgcaa aatgggccgc 240

gccaaaggagg ccaggaagaa agcgggtgtga cacgcgcggt ggaagaaagg gcacgtacgg 300

tcgtaaagat ggactcagat gaatgtgtta attctacaat cttcatgacc aattgtaaca 360

cgacgaacga ctgaatgcag cctcccttgc ccttccaaac agttttatct gtattaagac 420

ttaattcgtg atattt 436

<210> 165
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c10b1

<400> 165

cccacgtttc tgggttcgacg tggcggggta caccgagggc ttcccgcgcc tcgtctactt 60

cgaggactcg tggacccggg tcagcaacgt catcttctc gacgcgcccg tcggcaccgg 120
 cttctcttac gcgcgcgagg aggagggcct cgacgtcagc ctcaccggta ccggcacgca 180
 cctccgggtc ttctgcagc ggtggatcgc ggatcatcct gaggtcgcct acaaccgcct 240
 ctacatgggg ggcgactcct actccgggta caccgtcccc gtggccgcgc tcgagatcgc 300
 cgaccagccg gataagggag gctgaacct caagggctac ctgggtgggca acgccggcac 360
 cgacgacaag tacgactccg gcggcaagat ccccttcatg caccgcatgg ggctcatctt 420
 ccacgagctc ta 432

<210> 166
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c11b1

<400> 166

cccacgttc cgcccacgcg tccgcccacg cgtccggcgc tacatcaaga acctctctgc 60
 caagcttgaa ggggatgacc tagatgtttt caagaagaat gttgagtctg ccacaaagta 120
 tcttcttagc aagctcaagg accttcagtt ctttgttggc gagagcatgc atgatgatgg 180
 cggcgtggtg ttcgcctact acaaggaggg agctgctgat ccaactttcc tgtactttgc 240
 acatgggctg aaagagggtca agtgctaate gcaactgatg ctaaaatcta tgcggtcgctc 300
 agtatctttg ctctgctcta tgggtgtcag tcgactctcc aatgttgtgt cggttaactat 360
 cagatgttga gtgtcttgaa aactttctga taattgtggg at 402

<210> 167
 <211> 331
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c12b1

<400> 167

ggacctttct gacaagccca tggggctcgg cgtgcggtcc cgccgctacg tgctcctggc 60
 agacgacggc gtcgtcaagg tgctcaacct ggaggagggc ggcgccttca ccaccagcag 120
 cgccgaggag atgctcaagg cgctctgagc cgcgctgct ctgctccttg cctgagtcgt 180

gtctagtgt cccgagtagt gaataataat ccgacgaact gttgctcgtg tgagtgtcct 240
 tcgatgcgtc gacatcgtgg agaggatttt gttttgtttt gttgagaatt gcgtgctgtc 300
 catgtgctcg atgaaatgac ttgaattttt c 331

<210> 168
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004d02b1

<400> 168

gtgtatccga tgacggtggc cgccgcacgc tgcctcattc tcacccccac cgtctcctcc 60
 acctccttct cctccgcgcg gctccggcta ccccggatcg cccgcccgcg cccgctctcc 120
 tgctcggcct cgccgctcgc cgtgttcgcc accatggact cgccgcccga gggctaccgc 180
 accaacgtcg gcatctgcct cgccgacccc tccctcacca agatcttctc cgcgctccagg 240
 atcgacatcc ccacggcgtg gcagatgcct cagggtggga tagaccaagg ggaagagccg 300
 cgagcagctg ccattagggg actgagggaa gaaaccggtg tcagatctgc cgagattgtc 360
 gccgaggccc ccaattgggt gacatatgat ttccccgcgg atgtcaaaga caagctgaat 420
 gctaggtggg gaaccaactg 440

<210> 169
 <211> 244
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004d03b1

<400> 169

agtttataca gatgcaataa tatggcacac aaaaaagaag gaagtagcag ctatttataa 60
 gagcctcgca gtgtgcaata tagctacgag atcctattgt ctgttggaat ttcactttag 120
 aacggttggg tttattcttc aaacagttag cctagaagaa gatacacttg taaggcacat 180
 acataaatac aagttcaata tgtggctctga tcaaatacat atagcctacc tgatactttc 240
 gatc 244

<210> 170

<211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189004d05b1

 <400> 170

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 tgaaccacca tacacagaat atgtgtcaac tcgctggtat cgtgccccag aggttctact 120
 tcaagcttct gtttacagct cagcagttga catgtgggct atgggtgcca ttattgcaga 180
 gctttttttc gcaccgacct cttttcccag gctcaaggta cacatgatcc tttttctgct 240
 gagcctcatt tggttcccct attctcttgg ttgttgtgcc caatttaatt gaagattttt 300
 aagttggtcc taatagtttg ctgggagcta aatattaggc aaagatgctg ttgattatat 360
 atgaaataac catcatcggc cactttaata agtgaacca ttttttgtat agtctagaaa 420
 gcaccccata atgtgaaaa 439

<210> 171
 <211> 440
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189004d06b1

 <400> 171

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 actgaagcaa gttttgagca gagcatgaag gatatacaga aagatttgga ttttttgaaa 120
 gaacttcaca gtcgtgaatg gcctgatcct gaagaaaatt tccgcaagga gcttcgcaaa 180
 tttgagaaga aatgtgatat tgctcttctt gtactcgtgc ctacaactgc tgtgctcttt 240
 atgagtatac catattacct ttagcggggt ataagaaaca cactatctta gttttagcta 300
 tcctggttgt agtgatcgag gctttaggca ttattaagta cgtagctatg tattatcctg 360
 gtttgactcg tgtaatctga atgcacctac ttacactaaa cagtggatgc tactcgtcga 420
 attcccatgg ctgtatactc 440

<210> 172
 <211> 433
 <212> DNA

<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004d11b1

<400> 175

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gccaaaggagc cgcgcttcca ggccatgaag gcggacgccg cgcccatcgc caccgcgtga 120
ttagggacgt ggctgtacgt gccagagtcc ccgaacaaga gtattttggg acgtattgaa 180
gtggtgtatc gtagataatt tgtgtatgcg tgtgtaatgt ttctgctggt ggcttcgcag 240
tgcgccagtg catgccgtga tgcttgtttt accgtacgtg tgagtcaact tctttttata 300
gtatgtgtgt taagtaatgt 320

<210> 176
<211> 85
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004d12b1

<400> 176

atttagttta cttcatggat tgatcactta cttttatgta gctaacacaa atatatgtat 60
gtgccagctc agagccactt gatcc 85

<210> 177
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004e01b1

<400> 177

ggttttccgg ccccgaaacc gtcggctgtc ggcggattgc tcgagctgct cacgcggcga 60
gagcgggtcg ccgcgtgccg gccgggggac ggaccgggaa tcgccccctt gggggctttc 120
cccagcatg aaacagtcga ctcagaactg gtggaccata cagtacggat gatgcaataa 180
ttgaagatat gaagaaggat tacatggctg cgcaagagat caaggagaat aacaaataag 240
ctttatgcaa tggataatct gcaaggcaag gttctccatg cttgtatgta cgttgctgct 300

tttggaaattt ggcagttgct tactgggtcat gtttgggtgat tgatgctgaa ttcctagata 360
cattttgtaa acatttggat ttgtccaggc gcatgcctgt atgtactaga tgtgtacttg 420
ttttcactta tctgcaga 438

<210> 178
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004e02b1

<400> 178

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cgccggcgac ctcacccgcc gccgccgccg aagatgccgg tgaggggtggc cgacaccgcc 120
acccttcct cgcagacctc ctcaggacaa gatgcaaag ctgtgcagcc gtctctcct 180
agctgttcac tcttaactgc tggaagatgt tttgcaggaa ctcagaatgt ttcaagtta 240
caaaaagatg aggcattgaa agtcaatgtt cgtatccatg gttgtgatat tgaacagggt 300
tatttatgtg gaacgatgga ggcacttaat gttcccttag ccgacacacc tgtgggtaca 360
ttctgggagg gggagatagt agatgctaaa aattatactt tttttactgg caagtgggag 420
gcatcagcag aggatgatgt aagacactgg t 451

<210> 179
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004e04b1

<400> 179

cccactcgtt cgcccacgcg tccgagaacc aggacacgcc cacggtatac gcacgtacag 60
ctcgatcgca atggcgctgc tcgtcgccgt ccagccggtc gccgtgcggg gcctggccgg 120
cagctccatc tccggccgca agctcgctgt ccggcccgcc tccgccgccg tctcccgtc 180
caccgcagg gctcgcgggg cggcggtggg ggccaagtac ggggagaaga gcgtctactt 240
cgacctggac gacatcgcca acacgacggg gcagtgggac ctgtacggca gcgacgcggc 300
gtcgccctac aacggcctgc agagcaagtt cttcaacacc ttcgccgcgc ccttcaccaa 360

gcgagggctg ctgctcaagg tctgtgtgct c

391

<210> 180

<211> 314

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004e05b1

<400> 180

cgggtctcttt ggggtgtcga cgatgactcc gacgactccg acagcccgcc agggcccgcc 60

agctcgccag actcagactc gccagctgac tcgcctgacc ccgccgcaga cgacgaggag 120

agcggcagcg tcggcgtgag gagtggcgtg gtggcttccg tcgtggccgt ggccacctca 180

gcctccgtcg tgcttttatt ttagaacatc gtagcgatgt caaatgtact acttaggttg 240

tagacataaa cttttttggc aatctgtact cagttttggg tgaaatttca ggcgcgggtg 300

agtaattatg tggc 314

<210> 181

<211> 312

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004e06b1

<400> 181

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tccaaagtat tcacagaggg tccgtttggt tgctgcgaac tatcaaata tagttaaagcca 120

taattaaagc agttactgct gtttcttggt agtggcacia ggagtataat tttgcatcaa 180

atgtgtttaa atatgtgtga tttggcctgt cccataccta gcgtgtcgca ccattgagaa 240

ataaaagcat gaattctcct gtaccctgtt tgtagtattc cttgtgagat tgttgtttct 300

gtttcgtaca tg 312

<210> 182

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004e09b1

<400> 182

tcggttattt tattactatt tcttaatgac acagtgaggc cacgtacaga cgaacagacg 60

gtccttatga aggttttttt tttaagaaat agtaataaaa taaccttgat aatgaccagc 120

gagggcacgt acagacgaac agacggccct tacactgaac aacacaacgg atgggtgcag 180

cacacgcact gcatgtgcac atccaaatta catacacaaa caaaagtcgc gataacttaat 240

caaacgcagc agcatacgcg cgcgcgcgcg catgcaggag ctccggggcg cggggcgatg 300

cgatcgatcc tgcccgccca cgcgaggagc catgcacgcg tgcattgtaag cacggggtaa 360

ccggaggata ttattttaatt agtactc 387

<210> 183

<211> 252

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189004e10b1

<400> 183

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cccattaggc atttagacta ggtgagttag ttgtcttttt tttattttct cccttttatg 120

caaccttgga tattttgtga cgaaggtgtt cagcgaacct catgtttcga tgcacgaacc 180

caatgtctac cccagggaaa ttcaatttgt atgaggtagc gaatcatgaa tcaggcaact 240

atgctcataa tc 252

<210> 184

<211> 125

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189004e11b1

<400> 184

gtggctcatg tagggaatat gtctctgtaa atacggtata ctgctgcttg taaatatctg 60

aacttgaag cacaaggtgc actggctatg agcaccaagg aggaaggaaa taatcagaat 120

ggatt 125

<210> 185

<211> 472
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189004f02b1

 <400> 185

 aaattattga aaggggatat caccatgttg agttcaattc taaatgttat tgcattctaca 60
 atgagggttg ctatgaaaag gaagatatac caaccgcatt ttaccttgtc cctccatggc 120
 atatttaagt tgtgccaagc tattgatggc aattcaagaa gtatcgaact taagccatca 180
 atggagcttg gtactgatgt cgtccttatg aacggctctc tgccaatttt ttctgaaatg 240
 gataagtcaa gaactgtgat ggttgtttcc tgggtaactt ccaatatctt ctggttgtgt 300
 aaacaaaagt ctgcagcggg aatgtcatgt gaagagccac taaacaatga gtgtctacta 360
 tcaaagatat tgcgttggtt agtggcttct gtaatccttg gcagaatctc ccgcatctct 420
 cctgaaaaga ggggaggtct tgccacgagc acaaatagtc ccggaactct tc 472

<210> 186
 <211> 442
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189004f03b1

 <400> 186

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 tgggggtctg ggtgagcccg ttcgtgcacc ggtgacaggt cgcgctgcac ctcaaggggc 120
 tcaccggcta cgagtacgcc gaggaggacc tcaccaacaa gagcgacctc ctctctgcct 180
 ccaaccccg tccacaccaag gtccccgtgc tctccacgc cggcaagccc gtctgcgagt 240
 ccatgctcat cgtgcagtac ctgcagagg cttccccgg ctccggcccc gccctctcc 300
 ccgccgaccc ccacgaccgc gccgtcgtc gcttctgggc cgcctacgcc gacgaccagt 360
 tctttgcctc gtggatcaag gcgttcgtgg ggacgacgga cgaggagagg gcggcggcga 420
 cggaagccgc ggtggcagcg ct 442

<210> 187
 <211> 391
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004f05b1

<400> 187

ctcttttttct ggatgatcgc cggcatcggc gtcttcaact tcgtctactt catgatctgc 60

gccaggtggt acaggttcaa ggggaccagg gatgcttgat gcaatttgga tgatcaaaag 120

aagggggtag aataaggtca ggtgattaat tcacgtgtct tataccacag tagctatttc 180

ccttttgcgt tcttataatt ttttggttct gctgttatga aatcgatcaa tcaatctata 240

gatgaagtgg gcggggaaag agaggaagaa atgtactgta gacaacagtg ggggtggttaa 300

ttccttgtaa gttgttaaaa atgaaagaaa caacaatggg gtggttgatt tcttgtaagt 360

tgttcaaatg aaagataaac gatttcactg t 391

<210> 188

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004f06b1

<400> 188

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ccgccgccgc cgccggcgtc gcctgcccaa gatgaatgtc gacaagctga agaagatggc 120

cggtgccgtg cgcaccgggg gcaagggcag cgtgcgcagg aagaagaagg ccgttcacaa 180

gaccacgacc accgatgaca agaggctcca aagcaccttg aaaagagtag gagtcaacac 240

cattcctggt attgaagagg tcaacatttt caaggatgat gtagtcatcc aatttcagaa 300

cccgaagtgt caagcatcta ttgctgcaaa cacatgggtt gtcagtggaa caccacagac 360

gaaaaagctg caagatttac tgccgacaat tatcaaccaa ctgggccctg ataacttga 420

caacc 425

<210> 189

<211> 348

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004f07b1

<400> 189

catatacttg agagagcgca cgcgagatgg cagcctccat gatcacctcg ccgattgtgg 60
cgccgacgag cgtgccgtcc ctctcccgcc ggggctcctc cttcgccgtc gtctgcagcg 120
gtggcaagaa gatcaaggctc gataagcccc tcggactcgg aggcggcttg acagtcgaca 180
tcgacaccaa cggcaggaag gtcggcatga agggcgtgta ccagtttggt gacaagtacg 240
gtgccaacgt cgacggctac agcccaatct acacgccaga ggaatggtct gagtctggtg 300
accgctacgc cggcggaacg accgggctta ttatatgggc cgtcaccc 348

<210> 190

<211> 334

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004f09b1

<400> 190

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gcagtagtgg cctcgtcaca tgggcgcgcc ttgatgttgg tggtttctag cacaacactt 120
gcattgatgg ggacgattcg ggcctgaatg cgtgtgtgag acacaatgcg gcgtggcatt 180
gtaggtcgtc tagttcagat tctttagcat ggtaatttc ttagttgcag atcgagccgt 240
acggtatgat agttagagaa tgtgtgcagt ttgagtttct tattggtgaa cacaataaat 300
atttttcaag acaattattg cttgctccag agta 334

<210> 191

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004f11b1

<400> 191

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ctgttgggtg ctacggatta tggagtaggt gtcgacttgt ggagtgccgg atgtatcctt 120
gccgagttgc tggctgggaa gcctattatg cccggacgga ccgaggtaga acaattgcat 180
aaaatattta agctatgcgg atcccccgct gaagaatatt ggaaaaagtc aaagctgcct 240

catgcaacca tattttaagcc ccagcagccg tacaaaaggc gaatagcaga gacattcaaa 300
gatttccccgc aatcagcact tcggctgatt gaaacactcc tatcaattga tcccgccgat 360
cgtttaacag caactgatgc attaaatagt gatttcttta aaacggaacc tcgtgcttgc 420
gatccatcaa gtctgccaca atacccacca agcaaagaga tggatgcaaa a 471

<210> 192
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004f12b1

<400> 192

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ttcttggcat gatccgggtc tactgcctgg ggagccgggg gtcgggagcg gcgctcatgg 120
cggcgggcggc ggtcgggtggc caccgggagg cgctctactc gctggccgctc atccaattca 180
acggcagtggt tggcagtaag gacgaccgag acctccgagc gggcgctgcg ctgtgcgcgc 240
gcgcgggtgct gctcggacac gtagacgccc tccgcgagct cggccactgc cttcaggacg 300
gctacggcgt gcgccgctcc ttgctcgacg ggcgccgtct cctcatccag gcgaacgcgc 360
gggagctc 368

<210> 193
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004g01b1

<400> 193

ccctcgcgctc cgcccacgcg tccgggaaga tgttttgata cagtgttgta agagtctgtc 60
cctgcttcct tgtgacacta ttatattctt gtctttatgt tattccgctg cagtactact 120
ctatcactag atgcaaaaat tagctggatg tatggaattt ggggaggcag cccaaacaca 180
agacatttat ctttagctgt gctattctcc ataagatgcg gtgtcttttg catttaactt 240
gtgattgccc ttttggttgt cgaatgcagc tgaaccttac tatctatgca attatgtcaa 300
acattacagt ttacagcttc tctgtatgcc ttctgttgt ttgtactttg ttctggagcg 360

ttttattgta ccagcctgca agctaaagtg aaaggagtaa cacttggt

408

<210> 194
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004g02b1

<400> 194

tggttgaatg ctgcttcttc tcttgtcagg tggctgtccg agatggaaac aaagggttcc 60
tctggtgggt tgaaggcaca agaacaggaa ataaagttcc ataatccgaa gtttgtttct 120
ctgctaaacc atttacggtt ctacatccct caaatactcc ccaatctgga gaaggtgggt 180
tttcttgatg atgatgttgt ggtgcaaaag gacttgacac agcttttttc catagaattg 240
catggcaatg ttataggagc agtggagact tgtttagagt catttcatcg gtatcacaaa 300
tatcttaatt tctcgcaacc aataatcagc tcaaagattg atccacatac ttgtgggtgg 360
gcttttgga tgaacatatt tgacctaatt gcttggagga aagcaaattgc aacatcgctc 420
tatcattatt ggcaggagca aaatgctgat caactgcttt ggagaac 467

<210> 195
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004g03b1

<400> 195

cccacgcgtc cgcttttcgg gatcacagac tatcagatcg atattgctat gcgggagaat 60
gccaaaattc tatacgcgtt agagctcaag tctattggaa gaggtcttga cataggcacg 120
ctcattgaag tgaggagagt acaacttgca tataaacttt ttgatgaggt tgctgctgac 180
atgttcaagg agcatgcaa gaagttgggt caagaaaaca tttcatctgc tttatccata 240
ttgaagtcca ataccagtgc agggaacatt cccacagagg tcattagtga ggtgaatagt 300
atccttgcat tcaataagtt gctaacagtt ctaagcaagt ttcctcaagg cgaccgattt 360
gcacgtgggc taggacctat ctcgtagct ggagattttg atcatgataa aatgggttgg 420
gatctaaaga tactctatgc ggcctatata acagaagtac tttcagatgg acgtcttgat 480

<210> 196
 <211> 189
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g04b1
 <400> 196

cggtcgctg ggggatagt aaggtggacg tgggtgttctt ggctcatggg agcccgagaa 60
 aacctactat gtctcaacct accgttactt acacgatcgg gatgtatgta gtaaaaacgc 120
 gccaaatatt ttcccaggga catacgtggt tgatatacaa ttgatattac agacgtttat 180
 ttaaagttg 189

<210> 197
 <211> 334
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g05b1
 <400> 197

ctctagttc caggcctggc cccgtgtcgc cgggccgcgc gtcctcatga accccatcag 60
 ccgccagaac ttcatggtca agaaccctg aatgggcgcc gcggcggcgc aagctcgacc 120
 agggttatgc tcccaccatg cagacaaaga ttcctttgta gggttttgaa ctagttccta 180
 ataaaaggga ctttaaaggg cgggtatact attttgtttt acgaatttca gtttccggga 240
 gcaactttgg ggggctttac cgatcgctcg ctgcctttc gatgaactat gttcctcggg 300
 gaaatttccc acgaggcagg aaaataactg catt 334

<210> 198
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g08b1
 <400> 198

ccctttcgtc cggatgatcc gagcgggtgca ggctcgtcacc agggttgaga gccgccgggc 60

tgcgcgggcg tcggtggccg gctacgccag ccgctgcggc tactccacgg cctcgagctc 120
 ccagaggttg gctggaaagg tggccgtgat taccggcggg gccagcggca tcggcaaggc 180
 gacggcggag gagttcgtca ggaacggcgc caaggtcgtc ctcgccgacg tccaggacga 240
 cctggggccgc gccgtggcgg ccgagctcgg gccggacgcg gcatgctaca cgcactgcga 300
 cgtgaccgag gaggcgcagg tcgccgcggc ggtggacctc gccgtggccc gccacggcaa 360
 gctggacatc atgtcaaca acgccggcat cgtgggctcc ctggcgcgtc cccggctgag 420
 cgatct 426

<210> 199
 <211> 392
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g09b1
 <400> 199

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 cacactgacc acgcgccacc acgagcaaca cccatggcgc gcaccggcgc cgcgctgcc 120
 ctcttcgtgc tcgtctgctg cctcctcgtc ggctctgtcc cggcgcgcct ccccgctcag 180
 cttccgacgc aggtggtacc cgaagccgtt gacctcctgg ccaccgccga gccgcttctg 240
 gccaaagcagt tggcggctgc cgaggcggcc aaccggacca aagtccactc catgataaca 300
 gaggaggagg agaatggtgg ttcacccggc ccgccagcgc cccagatca tccggtgcgg 360
 cggcggagac gacgtggcgg tctccgacga gt 392

<210> 200
 <211> 473
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g10b1
 <400> 200

ctttgcattg ggatatggtg agttcaagtg tgcggaaatc ctccttgagg cgggtgctgc 60
 tgtagatgcc atggataaga acaagaacac cccactgcat tacgctgctg gctatggccc 120
 gaaagagtgt gtggatcttc tgttgaagca cggctgctgt gtcactctcc aaaacatgga 180

tgggaagacg cccatcgacg tgcgaagct caacaaccag gacgaggtcc tcaagctgct 240
 cgagaaggac gtgttcctgt aaatcacttc acttggcccc catgaagaga catcatgttt 300
 tacatccctt ggcattgggt ttatatagtc atacacgaat cggcatttta ttcgttgtgt 360
 aagaatctac tgtagctag cctgcaggcc gactggctga ggtagaact gcatgttact 420
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<210> 201
 <211> 135
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g12b1
 <400> 201

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 aagtacaaga gctacttggg tgctttccag cagatcctga agaaggaggg tgccaagtcc 120
 ctcttcaagg gggct 135

<210> 202
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004h02b1
 <400> 202

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 acccctccgc cgatctcccc gccgccgac agatgtctcg ccgctacgac agccgcacca 120
 cgatcttctc gccggagggc cggctgtacc aggtggagta cgcgatggag gcgatcgga 180
 tcatgtccga cgccaacatc ctcatcaaca ccgccgcct ccacgccag cgctacgcgc 240
 tctcctacca ggagcccatc cccgtcgagc agctcgcca gtcctctgc gacaccaagc 300
 agggctacac ccagttcggg ggctccgcc ccttcggcgt ctcttctc ttcgcggggt 360
 gggacaagaa ccacggcttc cagctctaca tgagcgacce ctcgggcaac ta 412

<210> 203
 <211> 425
 <212> DNA

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<223> Clone ID: uC-tsfl1189004h07b1

<400> 205

aatttttatta aaaaaaaaaa aaaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaataaaaa aaaaaaaaaa aaaaaggggc ggc 103

<210> 206

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004h08b1

<400> 206

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cgacgttgag gccaccgccg gcgcgcgct catggtcatg cccaccgcct cccacaagg 180

gagctccggc gggttcgaga cggcggcgg ggagaccggc ggctgcgact gcaccacctg 240

caagtgcggc acggcctgcg gctgctcctg ctgcagctgc aactgagccg gcgcccagga 300

ggcgggccgg cgaggcgagc acgaggatga ggaggacaac tggacaagca accaccacca 360

ccaccaccac catcactagc cgctgcatgc gcccgccgc gcgcgcgctg aataaaataa 420

aa 422

<210> 207

<211> 485

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004h09b1

<400> 207

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aatccgtggt gaagctcaag ggccttgaca tcgacacat caaccagaac tacaccgtgt 120

gaggagtatc gacattggac caacaaacat gacatccgta ttggagcgag attggaatgg 180

agctccgctt taagatTTTT cgggtgaatg aatgaaacaa acatggctga tctgaccagc 240

ccctagtgtg aaagtgtac caaatatatg gtttcgggtg tccgtcttct agagagggtt 300

atcccctggg tactacgatg gccggtactg gacaatgtgg aagctgccta tgttcgggtg 420
caccgacgcc acacaggtga tc 442

<210> 210
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004h12b1

<400> 210

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aaccagcaac atgaagtttg caatgaatgg ttgtattctt attggaactt tggatggtgc 120
gaatgtggag atcagagaag aggttggaga ggagaacttt ttctcttttg gtgcacatgc 180
acctgaaatc gctggtttga ggcaagagag ggctgaagga aagtttgtgc ctgacccgag 240
atltgaagag gttaaggaat acgtccgcag tggcgtcttt gggactagca actatgatga 300
attgatgggt tctttggaag gaaatgaagg ttatggacgt gcagattatt ttcttgttgg 360
caaggatltt cccagttaca ttgaatgcca gcaaaaagtt gatgaagcat accgagatca 420
gaagctatgg acaagaatg 439

<210> 211
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005a04b1

<400> 211

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tccgcgtca ccaacgtgag cctgtctacc ttcgcgcca cggccagggg cgacgtcctg 120
gcgaggccgc aggtggcccc cgcccgctc accttcccga cggcgtaccg cggcagcggc 180
gccctctcct gcagggcggg cgggccggcc acgccgccgg gcattctccga caagatgtcg 240
gacagcatca aggaggccca ggagacgtgc tcggaggacg ccgccagcgg ggagtgcgcc 300
gcggcgtggg acgaggtgga ggagctcatc gccgcggcca gccacgcccg ggacaagctc 360
aaggactcgg acccgctcga gaactactgc aaggagaacc ccgagaccga c 411

<210> 212
 <211> 291
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005a05b1

 <400> 212

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 aagaaggact acagcttcga cgtggagaag gacggcgaga ccgcgagct cgacaccaag 120
 gtgaactccg cgtcggtcac ctacaccatg aaggacgacg acccgctcgc cgtctacgcc 180
 atctccaagt tgctgcagac caaggtgctg ttcaagatcg ccaaggacat ggcccccgcg 240
 ccggcgctg agggcccaa gaagtagaag accaccaaga agaagccctc c 291

<210> 213
 <211> 138
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005a06b1

 <400> 213

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 ggggggcccgt tttaaagg 138

<210> 214
 <211> 468
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005a08b1

 <400> 214

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 ccggagcaat cagacctttt ggtaaaagag tgaaagggtg gcaatcctgc atgagaagat 120
 ccctggtatt tttgcccga aacatcttca tgagtgccag cgaagttatt cactgtttgc 180
 catgaaggac acagttacgc agggggggaca atcctttgat atgtatcgct catgttatct 240

gtagctttct aatggattag gtagagcgtg gttggcatct acatcaaaac ttgtcttttg 300
 ttcacctcaa gttctagttg gatttcacac cctgttttat acatagataa ataccatttg 360
 gttcaaaatg caacttctgc aagtatgcct ttctaatttt tgttttccac ttgatgttga 420
 catacgtgga tctgggttac ccttacctta tgatactata tcatttct 468

<210> 215
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005b01b1
 <400> 215

ggcggttcgg ctgctgcaga agggtcactt gccaaactagt cggtattgta tttgaggaga 60
 aaactcccga ggagcttcag aaccatgcta ccgttaagcc ctcagtgggtg gaactactac 120
 tggaaatatt caaatactgt gatttttatt tgatggaaac tgtacttgat gataagagtg 180
 aggagaatgc tcttatggcc ctggagaaaag ccgggctttt caataccggt ggcttgatga 240
 aagaaaaggt actcttttgc agcagtgaag taggccgaac ttcgtttgtt cgacagttgg 300
 agtcagattt ccacatcgac gcaagccttg agataatttc ccaactatc 349

<210> 216
 <211> 82
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005b03b1
 <400> 216

cccacgcgtc cgacctgtac tgtgctactc tgtgacctgc attgtctcca tttttctgcg 60
 atctaataca tgggctcacc ta 82

<210> 217
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005b05b1
 <400> 217

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agacatggca tccacgatca tggccgccgc ctcccgcgcc gttgtcgcca agacgccgtt 120
cctcagcggc cagggccgcg cgcgcagcgc cagccccctg cgcgacatcg ccgccgcggc 180
caacggcaga atcaccatgg gcaacgactt gtggtacggc ccggaccgcg tcaagtacct 240
gggccccctt tccgcgcaga cgccgtccta cctgaacggc gagttccccg gcgactacgg 300
ctgggacacc gccgggcttt ctgccgaccc ggaggcgctt gctaggaaca gggcgctgga 360
ggtgatccac gggcggtggg cgatgctcgg cgctcttg 398

<210> 218
<211> 81
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005b06b1

<400> 218

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aaaaaaaaa aataaaccaa g 81

<210> 219
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005b07b1

<400> 219

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atgctggctt ttcgcaaggc caaggcaagg ctcggtggcc gtcttcgcct actaatctcc 120
ggtggtgcac ccttaagtac tgaaattgaa gagttcatga gagtgaccag ctgtgcatac 180
tttatccaag gctatggttt aacagaaaca ttgggaccta gcacagtcgg ttacctgat 240
gatatgtccc tggttggaac tgccggtggt gccgccacct tcaactgaact gcgactggaa 300
gaagtacctg agatgggtta tgatccactt ggtgttcctt ctctgtggtga aattctcatt 360
agagggtcta ctgtcttcac tgggtactac aaaaatcctg agctcacaaa tg 412

<210> 220

<211> 110
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005b08b1

 <400> 220

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 caaaaaaaca aaacagacaa aaacaaaaaa aaaaaaaaaa aaaaataaag 110

<210> 221
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005b09b1

 <400> 221

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 tatcagtact gggctgaagg caggaaatgc gtctgatggt tctggttcat caatctgcat 120
 tggattctca tcccagggtc atgaggcttc tgaccttggga ttggaagctg ggcactgcaa 180
 ggtatttatg gaatcggagg atgttggtcg caccatcgac ttgtctgtct ttgggtcata 240
 cgacgagttg tatggccgtc tggctgacat gtttgggatc gagaaggaag aaatcataag 300
 ccatcttcgt taccgtgaca cagctggtgc cgcatgcac actgggggat taccattcag 360
 cgacttcatg aaagtggcac ggaggctgac gataataagt ggcgaaaagg gagggctggc 420
 gaaacctctc atcgaatgca t 441

<210> 222
 <211> 148
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005c01b1

 <400> 222

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 tgcagaatcc cgcgaacat cgagtctttg aacgcaagtt gcgcccagg ccactcggcc 120
 gagggcacgc ctgcctgggc gtcacgcc 148

<210> 223
 <211> 415
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005c02b1

 <400> 223

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 gaggtggacc caacacaggt ccatgagagc ctacaaagga tacgtgaaag gaagcttggt 120
 aacttcgtag agtgggggacc tgcaagcatt caggttgcac tgtcaagaaa atcaccatat 180
 gttcaaacca cccacagggg tagtggtttg atgtagcaa atcatactag catccgtcac 240
 ttattcagca aatgtctggg gcagtatgaa aagctgagga aaaagcaagc ctttcttgac 300
 aactacagga agttcccgat gtttgcggaac aatgatctct ctgaatttga tgaatctcga 360
 gaaattatag agggctctggg tgatgaatac aaggcttgcg aatcacctga ctaca 415

<210> 224
 <211> 78
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005c03b1

 <400> 224

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 tgtagctttt gtgaaaaa 78

<210> 225
 <211> 271
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005c04b1

 <400> 225

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 accagccatc taccagaagc catgattgta agcattcgga ccgtgcggct tcttgcattg 120
 gtttttggca gtaaaaagac gaagtgcga gtggtagtct cgagtgtctg acccatgtat 180

acatgtagca tggattatta agctgtaata tgtatagtcg attaaatgag ccgcgaggca 240
gaattttctt ggctaaaaaa aaaaaaacta a 271

<210> 226
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005c05b1

<400> 226

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cgtgcgtgca tcategatcg tatcgatcta ctactaccat accatgtaac cgcaacctga 120
tcgagggcct ttatgtacgc acctgacctg catcagcagt cagggtgcat gccatgattg 180
taaacaggcc cccctaaata aaacctccct tgattaacta tacatgtgtc gtctgtggta 240
tgcataatc atcaccttct ttttcttctt caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaataa 328

<210> 227
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005c08b1

<400> 227

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ggcaggaagt actgcagggc tgcaaactgg ttttcagtcg agtggtcccg tccgattgcc 120
ggccgcagca tcagataatg tggaagatgg ccgagcagct gggcgccgct tgctgctcgg 180
agggtgatcc cagcgttacg catgtggtcg ccgtgcatgc cggaacggag aaggcccgct 240
gggctgtcaa acacaagaag tttttgctcc acccccgtg gatcgaggcc tgcaattatc 300
gttggcaccg ccagcgggag gaagatttcc ctgtacctgg cctcaaggag ggcaagggca 360
aggaaaaagt tgagagaat gccacactgt aactgagtat aactgactca tctagtgttc 420
gtgtactacc atgattgaag atgaatagat tgaaagtttt ttgt 464

<210> 228

<211> 105
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005d01b1

 <400> 228

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 cgccactttt gtcattgtgt tgtgaaggcc ttatctgatt ctagt 105

<210> 229
 <211> 375
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005d02b1

 <400> 229

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 actttgattc aaagcattac acacagtggg tcatgcagca caaactaaaa cgcaaagcag 120
 gtgttgccgc acagcagcag cattctcgcc tccatacaca ggcggatacc acagtgacca 180
 tccacacata ataccactgt ccaccacaag ccaaacaaga cactacaacg agatactgac 240
 tcctacagct attaggtaat aatagaactc cgggtagctc ttattgttac tgcgtcggga 300
 tgggctgcat ctcaggagct gtggcaggcg cagtgtcggc ggccggggtg gcgaaaaccc 360
 ttgcaatgcg ctcag 375

<210> 230
 <211> 335
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005d03b1

 <400> 230

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 ttggtggagg aacttttagga catccttggg gaaatgcacc tgggtgcagca gctaactcag 120
 tggctttaga agcctgtgta caagctcgta acgaaggcg cgatcttgct cggaaggta 180
 atgaaattat ccgagcagct tgcaaatgga gtcctgaact agccgcagct tgtgaagtat 240

ggaaggcgat caaattcgag ttcgagccgg tagatactat tgataagtag ataaaactaa 300
agataaagaa gagaaggtat aaataaaaaa gaaac 335

<210> 231
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005d05b1

<400> 231

actaccttca ccccttctaa ccatttgagc tcttcaatgg ctgcaatcca cgagcctgtg 60
ctacaaattc aagcatccgc atcgtttaact caactgcagc atacacacgc tgattgtatt 120
cctgagctgt ccgtaagcac tgctgggact actgagaatg aaaaaagcat tcagcaagct 180
cctcacagtt cgaaagacgt ccaaagcaag tcccatgggtg cttccacaag gagttgcaca 240
aaggttcaca agcaaggtgt tgcacttggt agatcagtgg atctgtcaaa gtttggtgac 300
tatgacgaac tcacagctga gctagacagg atgtttgagt ttgatgggtga actgatgtct 360
tcaaacaaag attggcagat tgtgtatact gatcctgagg gtgacatgat gctggtggga 420
gatgatccat gggaggagtt ct 442

<210> 232
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005d06b1

<400> 232

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gagaggaaga ttgccaggag ggaggagaga ttggctcagg gcccgagaga tcatgcacca 120
gcaccagcgg ctgcagctcc cgctcaggca gcagctgcac ctaagaaggc caagaagtga 180
aggtctgata agaagcttta tctttctggt aatatcaagg gttagcctaa ttttgaaca 240
tcagaagttc agaactgttt tctgtgcaat atcttgtttg tgtcagcgtg tcagatacct 300
taaatatcat atcgtgtttg ttcaaaaaa aaaataa 337

<210> 233

<211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005d08b1

<400> 233

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 cccagcgatt gtccttgcta aggttgatgc caacgatgag aagaacaagc cgcttgcggg 120
 caagtacgag gtccagggt tccctaccct caagatcttc aggaacgggg gaaagaacat 180
 ccaggaatac aagggcccca gggaggctga gggaattgtc gagtacttga agaagcaggt 240
 tggccctgct tccaaggaga tcaaggcacc tgaagatgcc acttaccttg aagacggcaa 300
 gatccacatt gttggtgttt tctactgaatt cagcggcact gagtttataa acttccttga 360
 ggttgctgag aagctgaggt ctgattatga ctctggccac accgtgcatg ccaacca 417

<210> 234
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005e01b1

<400> 234

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 cccgactagt cgaaggccac agccatggcc gccctaccg gcacttccat gctgagcgcc 120
 ctgctccagc ttcccctggc cccgttctcg cggaagagct ccgcgccttc ggcgggtccac 180
 atgaccgccc gccgcgcgcc gacgtccgtg ctggccgcca agggctataa cgtgcagatc 240
 gtggtggacg agaacgaggg ggaggactcc atcttcgggc ggttcgggcg ggaggtgatg 300
 aaggccggcc tgctccagga gatcaagcgc cgccggcggc atgagaacac caaggacaag 360
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 cgtaggttcc cagaagatga gggagac 447

<210> 235
 <211> 373
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005e02b1

<400> 235

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gctcgtcgcc gtccagccgg tcgccgtgcg gggcctggcc ggcagctcca tctccggccg 120
caagctcgcc gtccggcccg cctccgccgt cgtctcccg tccaccgca gggctcgcg 180
ggcggcggtg gtggccaagt acggggagaa gagcgtctac ttcgacctgg acgacatcg 240
caacacgacg gggcagtggg acctgtacgg cagcgacgcg gcgtcgccct acaacggcct 300
gcagagcaag ttcttcaaca ccttcgccgc gcccttcacc aagcgagggc tgctgctcaa 360
ggtcctgctg ctc 373

<210> 236

<211> 199

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005e03b1

<400> 236

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cggcggaagg atcagatgca tgcattgtcg gccgattgcg ggcattcaaga tgttcgagac 120
cctgtcttac ttgccacccc tctccagtga ggccctccta aagcaggtcg actacctgat 180
ccgatccaag tgggtgccc 199

<210> 237

<211> 59

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005e04b1

<400> 237

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<210> 238

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005e06b1

<400> 238

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accagaagta gcaagaacga tgaacccgat ctgtttcctt tcttgcgac gcattctaca 120
agggtgatgg actttatgtg tgatgagaaa gggatttact tatatatata acctacgtgt 180
attctctttg ttatttcctt gtatgttcgt tcggaacaag catgttagat tgtgtaagct 240
gatgtgtgtg tatctactac tactgcacta ctttgatttg attcgcgtgt gttgtatgcg 300
gtttccgttg taaattgggtg tgctctgtct gtaccgcaaa ctcttttctt tcatct 356

<210> 239

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005e08b1

<400> 239

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caccgcctcc aggaaggccg gcggcaccac ctccggcaag aagcccgcgg ccggcagcga 120
gggcggcggc gggttcaacc tcggcggcct ctccgccaag aaaggctgaa ctacataagc 180
acgtgcgcgc gcttgggtgc gtgcttcgat ctcatagctc gatttattgc tgtaactcca 240
tggaatacat cgcagagatc tgcatatatg tacacgcggg gtaactactc aaatgattct 300
tgctgtgatg ctttatagat ttgtattctt cttcacacaa cttctggagt aatttctctc 360
aaaggctcag tatgtcatat acccatgtta agctttgctt tgctaagatc ccaataccga 420
caacctttat atctct 436

<210> 240

<211> 314

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005f01b1

<400> 240

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acggcttctg catgagccgc tgcgggtccc acggcgcctc cccgcggtcc cgcgcgggc 120
 ggttcgcgta cgtgtgggtg ggcaaccgg cgacgcagtg cgcggggcag tgtgcgtggc 180
 cgttcacca gccgcagtac ggcccgaga tggcaccct cgcgcggccc aacggcgacg 240
 tcggcgctga cggcatggtg gtgtccctcg cgtccatggt cgtcggcacc gtcaccaacc 300
 ccttcggcaa cggc 314

<210> 241
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005f04b1
 <400> 241

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 cgggtcgctg tacctggggc agccgctgcc gttcacgctc accacgttga tctggatcga 180
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 ggagactctg cagctggcgg agatcaagca cgcgcgcctc gccatggtcg ccttcctcgg 360
 cttcgccgtg caggccgccc ccaccggcaa ggggccactc aacaactggg ccacca 417

<210> 242
 <211> 106
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005f05b1
 <400> 242

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 actagttcaa acatgggaat aaaagacaaa cacatgtctt gtctac 106

<210> 243
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005f06b1

<400> 243

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gtgctccgcg acaacatcca gggcatcacc aagccggcga tccggcggtt ggcgcgcaag 180
ggcggcggtga agcgcatac ggggctcatc tacgaggaga cccgcggcgt gctcaagatc 240
ttctctgaga acgtcatccg cgacgccgtg acctacaccg agcacgcccg ccgcaagacc 300
gtcaccgtca tggacgtcgt ctacgcgtc aagcgctgt gccgcaccct cta 353

<210> 244

<211> 135

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005f07b1

<400> 244

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agaacgaacg agaaaaatgc cgcgccacct gctgcagcag tccgtcgacc gcctcgccgc 120
gctggccgcg cctcc 135

<210> 245

<211> 119

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005f08b1

<400> 245

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aatttgcgca aaaaaaaaaa aaaaaaata aaaacaaaaa aaaaatacaa acaaacaaa 119

<210> 246

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005f09b1

<400> 246

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ggtgatgata caggcattac gttgcctgtg ggcggcggcg acgccgagct gtggtcgtcc 120
ggcggcgacg atggtagctc cttggaggct cgcctccca gctgggactg gagatccaag 180
ggcgccgtca caccggtcaa gtcccaaggc gcaggatgcg ctagctgctg ggcgttcgtg 240
acggttgca cgatcgagac tctgaactgg atcaggacgg ggcagttggt gccctctcg 300
gagcagcagc tggaggactg tgaccagtac gacggcggt gtaaccgcgg gtcctatcac 360
agggcttaca attggattgt ggagaatggc ggcctcacca cggcagcgga ttaccgtac 420
ac 422

<210> 247

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g02b1

<400> 247

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tgttccacca caagaaggag ggcgaggact tccagccgc cgctgacggc ggcgtcgaca 180
tgtacgggta ctcgaccgag acggtggtga ccgccaccgg caacgagggc gactacgagc 240
ggatcaccaa ggaggagaag caccacaagc acaaggagca cctcggcgag atgggcgccc 300
ccgccgccgg agccttcgcc ctctacgaga agcacgaggc gaagaaggac ccggagcacg 360
cgcaacgca caagatcgag gagga 385

<210> 248

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g03b1

<400> 248

cttcgctgca cacaaccctc tccaccccca gcaatccatc catccacccc acccccaccc 60

ccctttgccc tcccctaccc ggcggtattcc ctccccgagc tcggcaatgg caaacgcttc 120
atcaggagct gggatccatg atgactgcaa gctgaggttc gtggagctca agtccaagag 180
gatgcaccgc ttcataacct acaggctgga gaaccagaag gaggtcattg tggaccaaac 240
tggggagcgt gaggcaacct atgaggactt caccaagacc ctccctgaga acgactgccg 300
attcgcagtg tttgacttcg acttcaccac cccggaggat gtgccaaaga gcaggatctt 360
ctatatcttc tggccccccg acacggcaaa ggtgaggagc aagatgacgt acgcgagcac 420
caa 423

<210> 249
<211> 194
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g04b1

<400> 249

gctttttggc tcggccaggc cggcgctcgag atcggcacgt ccgtcggcgg ggccgtgcag 60
cacgccgtgc gccagctgcc cgtgcccttc cggggcgccc agatccgtcg tcgcaagctg 120
caccgcccc cttctgcgga cggggccgtc ggctcctct cctcggagag ggccgtcgat 180
agatgccctc tcga 194

<210> 250
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g05b1

<400> 250

cccacgcttc cgctcgtcca ctgcgccagt ctccgggagc gcaacctgct cgccgacgtg 60
tccacgctcg tggagcgcca ccgcgcggcg ggggcgcgca agcgcgacct cctccgcctc 120
ctcgcggcgt ccctccgcgc catgggccac gacgccgcgc tctgcctctc ccgtggggac 180
aagtcgtcgt cccaccccg cggcgagcac gcctacgtgg acgtcctcct ccccgccggc 240
tcggagcgcg gcgaccgcga gcgcgtgctg gtggacgtcg acttcaggtc ccagttcgag 300
gtggcacggc ccaccaaggc ctaccgcgcc gtgctgcagc ggctcccgtc ggcgttcgtc 360

ggcaaggagg accggctgcg cctgctggtg

390

<210> 251
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g06b1

<400> 251

atctgatcag agaacagagc ggagcggata aactcgagtt cgatcatcac caaccatgtc 60
gtgctgcgga ggcaactgcg ggtgcggatc cggctgcaag tgcggcaacg gctgcggagg 120
gtgcaagatg taccctgaca tggacgaggg agtgaacacc gcctcccaga ccctcatcat 180
gggcgtggcc ccctccaagg gcaccccgtc gttcgaggcc gccgtcgaga acggaggggtg 240
caagtgcggc cccaactgca cctgcaaccc gtgcacctgc aagtgatcca tgaggcctca 300
atcaaatcag atcaaggaga tggcatggat ggacctgatg aaggagcgag tagtagttat 360
gcatgaatcg caagcgtgtg tttcgtttta aattgccacc cagaataaga cgagatcta 419

<210> 252
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g08b1

<400> 252

aagagatcag atcagatctc atctcagtct cctctgctcg gctcaggtcg ccggcgatgg 60
cgatggcgcc gtccctccgc accaccgtcc tgctcctcct ctctcctcct gccgcctctt 120
ctcaggcgga ggcggcacia ggcggcgagg acggcatccg tgtcctctcc gccgagaaaa 180
ggatcgacct caccggcccc attgtcaagg tcttcctcac cctcaaggtc cagaacgccg 240
ccaccggcgc cgacgcctca cacgtcctca tcgccttcac gcctgccgag gccgaccacc 300
tcgccatcgt caaggccacc c 321

<210> 253
<211> 470
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189005g09b1

<400> 253

gtcatggcgg agcggctcgc gtcctcggcc tccctcctcc ccagcgcggc ctgccttcc 60
tcgtcgaccc gccgcgccgc cgtcgcctcc gggctccgcc tccgcccgtc gccctcgcgc 120
ttctcacagg ctgcgaggag agtgcgcggt ggcgctggcg ccgccggggt ggtgccacgg 180
ctgcgggtgg tgcgatgcat ggcggcgctc gaggccgcgc agctcaagag cgcgcgggag 240
gacatcaagg agatcctcaa aaccacctac tgccacccta tcctgggtccg tttgggatgg 300
catgattcag gtacatatga caaaaatatc gacgagtggc cgcagagagg cggagccgac 360
ggaagcttaa gatttgatcc tgagttgagt catggagcca atgctggtct tactaatgct 420
ntaaagctta ttcaaccaat caaggacaaa taccaggta tcacttatgc 470

<210> 254

<211> 193

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005h01b1

<400> 254

cccacgcgtc cgcccacgcg tccgatctgc tcgagcggtc acttgctagc atggccgata 60
tgatagtatt gcgagctagt aagtgtatga tcatttgtga atgcatgaca tatgctgact 120
tttagatatg gtggcaacgg tcatgcgtac atatgtattt gaacaatatc cataaatgga 180
cctatttcca gtt 193

<210> 255

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005h02b1

<400> 255

tcctcgcttc cgcgcgcgcg tctcctccta ctcttcgccg ctcccgtcc cgcgctcgcg 60
ccaccgccgt cagccatggc acccaagaag gagaaggccc cggcggcgctc gtccaagccg 120
gccaaagtccg gcggcggcaa gcagaagaag aagaagtgga gcaagggcaa gcaaaaggag 180

aaggtgaaca acgcggtgct gttcgaccag gccacctacg acaagctgct caccgaggtg 240
 cccaagtaca agcagatcac gccctccgtc ctctccgagc gcctcaggat caatgggtct 300
 ctggctcgca gggctatcaa ggacctgatg gagaggggac tcatcaggat ggtgtcaatc 360
 cactcaagcc agcagatctt caccagggcg acaaacacct gatttatcat tatcat 416

<210> 256
 <211> 383
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005h03b1

<400> 256

cctacgcgtc cgctacccgc tgagtttaag catataaata agcggaggag aagaaactta 60
 caaggattcc cctagtaacg gcgagcgaac cgggagcagc ccagcttgag aatcgggcgg 120
 ctgtgccgtc cgaattgtag tctggagagg cgtcctcagc gacggaccgg gcccaagtcc 180
 cctggaaagg ggcgcctggg aggggtgagag ccccgctccgg cccggaccct gtcgccccac 240
 gaggcgccgt caacgagtcg ggttgtttg gaatgcagcc cgtgcccag accgtgtggg 300
 cgcagatctt cgtctggctc gtaaaacccg gagcggggat catgatcatg gaccctacg 360
 gcgccgtcat cagcgccacc ccc 383

<210> 257
 <211> 204
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005h05b1

<400> 257

cccactcttc cgcgcaaatc ttgtactacc tccttcccaa gatataaggt gtgctttgac 60
 ttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaagaaatc aaaaagataa 180
 aaaaaaaaaa aaaaaaaaaa caaa 204

<210> 258
 <211> 321

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189005h09b1
 <400> 258
 acgccaccga ctctcctcc agcgaggacg agtcggcgcc gccgccgttg gccccgatgc 60
 cgacgaccaa ggaggagcgc cggagggagc gcaagaagcg ccgccgcgtc atggaggccg 120
 ggaggaggga cgactcgggg ccgccgcagc cgcaggcaac cggggcgcgc acgccctcgg 180
 tgcggtaccg cggcgtgcgc cagcgccgct ggggcaagtt cgcctcggag atccgcgacc 240
 cgatccaggg ccgccgcctc tggctcggca ccttcgacac cgccgaggag gccgcagcag 300
 cctacgacgc cgtcaagatc c 321

<210> 259
 <211> 348
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189007a05b1
 <400> 259
 caataccatg gccccgcgcg tgatggcttc gtcggctacc accgtcgac ccttccaggg 60
 gctcaagtcc acggccggtc tgcccgtag ccgccgtcc agcggcagcc tcggcagcgt 120
 cagcaatggc ggaaggatca ggtgcatgca ggtgtggccg attgagggca tcaagaagtt 180
 cgagaccctg tcttaacttg caccctctc cacggaggcc ctctgaagc aggtcgacta 240
 cctgatccgc tccaagtggg tgccctgect cgagttcagc aagggttggt tcgtctttcg 300
 tgagcacaac agctcccccg ggtactacga cggccgatac tggacaat 348

<210> 260
 <211> 302
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189007a06b1
 <400> 260
 atcaccatgg gtttaggatc aaagatgtgg cttgctatac aggccagagc atacaatgtg 60
 caattttcag ggtgcaggtc tgtatgcctt gccgggtactc gaagattgac tgtagtgctg 120

tttgtatgct gtattgtact ccctccgtcc caaaatataa gaacgttttt gacattatgc 180
tagtgtgaaa aacattctta tattttggga tggagggagt attatttttc ctgtataccg 240
gttgatttat tgatcttgca gtgcaaccat catttcgcag gagaatatag catcccttgc 300
tt 302

<210> 261
<211> 58
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007a07b1

<400> 261

gcattatatc agtatttggt gccgagcatg aaataatgct cagttcaatg ttcaattc 58

<210> 262
<211> 80
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007a10b1

<400> 262

cagaactccg aagttaagcg attgctgggc atgttttggt aatataaaaa gatattgagt 60

atacctatct ggtaaagaca 80

<210> 263
<211> 159
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007a11b1

<400> 263

aattttcaaa gtatatatgc attaaggagg gtggagtcag gctagatcta tactataata 60

tccttaatgt ctataagtg agtcctcttt tatgcggggt tccacttta gcaatgattt 120

tagaatccga ttcaatagaa aatgagaaaa tatgcaaac 159

<210> 264
<211> 391

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007a12b1
 <400> 264
 ggagagcaga gctgagcaca acccttggac acctcttctt cttcttccat agtaacccaa 60
 cccacccttt gcgaagatgt ataacgctcc gtcggggcag gagatgtcct acacggagca 120
 cgtgcagaag cgccacgagg agaagggctg catctacgca tgcgtgttca cagcgctgtg 180
 ctgcttctgc tgctacgaga catgcgagtg ctgcctcgac tgcctctgct gctgctgcaa 240
 ctaaaccgga catggccgcc atggacggag gccgcaaggc gcagaggaga tccaccggcc 300
 tccgccgcct ttcataataa gcatatgtgt ctagtgtctt agctcgatga gaactgtatc 360
 acaactttgc tataatacta tctgtccttg t 391

<210> 265
 <211> 83
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007b04b1
 <400> 265
 ctcactctct tttgcatgtg accacacaac aaataaacca caaccggaaa cgcaccctca 60
 tttggtactg tactggatct ggg 83

<210> 266
 <211> 337
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007b05b1
 <400> 266
 ggggggtggc ctccagctcc gatgagcccg gcggcctgac cctgcacatc gaggactacc 60
 cgtacgccgt cgacgggctc gaggtgtggc acgccatcga cgggtgggtg cgcagctact 120
 gcgcccactt ctaccacagc gacaaggagg tggacggcga cgcggagctg caggcgtggt 180
 ggcacgacgt gcgcaccgtc ggccacggcg accggcaggg cgaccaggcg tgctggctgg 240
 cgctggacac cgtcgaccac ctgcgccaga cgctgtcgac gctcgtctgg atcgccctccg 300

cgctgcacgc ggccgtcaac ttcgggcagt acgccta

337

<210> 267
<211> 309
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b06b1

<400> 267

gcactactca cggtaagaac cacaaccacc acaagtgagt gaccatcgga gcaaggaaag 60
accaggagag atggcaatga ggccgcttgt cgtcctggcc ctggccgtgg cgctcgccgg 120
cgtggcactg ggagggggcg cggcggaggg ggccggcgag tgcgggaggt cctccccga 180
ccggatggcc ctgcgcattg ccccgatgat ctggcgggcg gacgagccgg actcggcgcc 240
gtcagacgag tgctgctcgg cgggtgcacac catcggaag agccccagct gcctgtgcgc 300
cgatcatgct 309

<210> 268
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b07b1

<400> 268

gtgccgaaaa atctgacggc gctgggcctg cagctcactc agttagagaa gataatcagg 60
gacaccgaga agagcctgcg cagcagaggg tgcaatcgac tgatggcggg agcatgatca 120
gggtgtactg ctacctgagg ctatgttgct ggatcatgac caaaccttgc tcaagagatg 180
tgctgtggac tgtgcccagc cctgcgctag accttatagt tgctgtatg atttgtgcaa 240
taacggctgg ttgatctgct ggtacactgt aatgggttctt ttgctagact gttccgac 298

<210> 269
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b08b1

<400> 269

gccaccaag ttcgtcgcca agatgaagct cattcagggc taccctggca acgccggctt 60
 caagttcggt gtcgggctcg agagccactt caccacgccc aacctcccct acgtcagggg 120
 cgccctcgac acgctcgcgc agctcaagct gcccatgtgg atgaccgagg tcgacgtcgt 180
 caagggtccc aaccaggtca agttcctcga gcaggtgcta aggggaagcct acggccaccc 240
 gggcgtgcag ggcacgtcga tgtggggcgc gtggcacccc tacggatgct acgtcatgtg 300
 cctcaccgac aacagcttca agaacctacc cgtcggcgac ctcgtcgaca agctcatcgc 360
 cgagtgggaag acgcacaaga cgtccgcccgc caccgacgcg aatggaatgc tcgagctcg 419

<210> 270
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b09b1

<400> 270

ggcgtggctg gtgggctgtg gctgctgcag ctgctgctcc tgggctgcct gtggaggcgg 60
 ctcaagtcga acgggcgggc aggggacgcg gtcgcgagcg gcgacggcgg caggtctggc 120
 aagagcgct cgggctccgg cggcgtggga ggggagagat tcctagttag tgacatatcc 180
 gagtggctgg acaagtacag ggtgttcaag gtggaggagc tgcagcgcg caccgacggt 240
 ttcgacgacg cgcacctcat ccagggcagc gtgtacaagg ccaacatcgg cggcgaggtc 300
 ttcgctgtga agaagatgaa gtgggatgcc tgcgaggagc tcaagatcct gcagaagggtg 360
 aaccacagca acctggtgaa gctggagggg ttctgcatca acacggcgac gggcgact 418

<210> 271
 <211> 343
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b10b1

<400> 271

cggacgcgtg ggcgcaaac gtggtgttcg acgaggacgc ggtgccctcc ggcgtggacg 60
 tctccaagat ctcccaggag gagtacctca acgccccgg cgagaccttc tccgtcaccc 120
 tcaccgtccc cggcacctac ggcttctact gcgagcccca cgccggggcc ggcattggtcg 180

gcaagggtcac cgtcaactaa taagctgtct tgttgccaat tgttgccgggt gggttgatcg 240
 atcggggcgtg tcatgcatgc atgcatattg attaattgta cgaacgtacg ctatatgtat 300
 atgttttcta ctattataag atgagatgag gctcttgctg ata 343

<210> 272
 <211> 257
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007b11b1
 <400> 272

cccacgcgtc cgcgatagcc aatttattgg ctaattcgaa ttcgtctgta caattcgtaa 60
 aattctttct tatttcttat tgttgaaatc caaaattaaa gtctcttggc tctcttcacg 120
 ctttctcaca aacagattaa aaaatagatt tttatttttg aagtttgat aaaccattgc 180
 ttcgtctggt gtctacaata catataactc attatagtag taatttcatt tttaccagat 240
 cgaaaaatct tatgttg 257

<210> 273
 <211> 366
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007b12b1
 <400> 273

cccatcttgt ccgttgacgc gtgggcggac gcgtgggaga agaggcacgc atgcgtgaga 60
 aagaagcgag agacatggcg gaggagggga aggtgatcgc gatccacagg caggtgcagt 120
 ggagcaccaa gatcgaggag gctggcagca gcacgtatct ggtggtgatc gacttcactg 180
 caacatggtg cggaccatgc cgcttcattt ctccaatctt agatgagatt gccaagaagc 240
 ttccaagtgt tactttcctg aagggtgatg ttgatgaaat gaagtcaatt gccgaggagt 300
 tcagtgttga ggccatgccg acgcttgctg tcatgaaaga aggaaagggt gtggacaagg 360
 ttgtgg 366

<210> 274
 <211> 217

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007c04b1
 <400> 274
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 gagggaaagg atcatccgcg ccttcttggt ggaggagcat aagatcgtga agaaggtgtt 120
 gaaaatacag aagaccacgg acaagacgac ctgaatgtaa tctgatcgaa acagaagtgc 180
 gaagtgatgat ggtgttctgt aaacaaggaa aatattt 217

<210> 275
 <211> 152
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007c06b1
 <400> 275
 gtatcctcaa aatcttggag tgctccgta ctctgtctgc aaataccact tcaaaagtgg 60
 taaaaaatc aagaaaaatg gaagacagag acacaacatg tgtcaactat gtcattgtgtt 120
 gaaatccaaa ttccaatctc aaatctagaa ac 152

<210> 276
 <211> 384
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007c07b1
 <400> 276
 cggacgcgtg ggcggacgcg tgggagtctc ccctccctct cccaaatcga agcgagaaat 60
 tccccaaaaa gctaccccat ttccgtcca gccgaggcac cggcgccgca gccgcgcccg 120
 cgcccgcgcg atgccgaacg cgatcccggc cttcttccgc gcctcgccgg ccgcggcgctc 180
 gggctccggc gccggggcgg ggcccagcct cgccacctcc gtctacgaga cccgcctcgg 240
 cctggcgggc ctctcctggt cgcgcgccgc gttcggcctc agcctccggg ccgtgctccg 300
 cgtcggggcg ctgcctcct cctcctcggc ctccgactac ggctgctacg acgacggccc 360
 ggagttcgac gaggagacca ccat 384

<210> 277
 <211> 386
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189007c10b1

 <400> 277

 agaactgaag gctagaagag cccaaagatt tcttggagac tcttctccaa tccccctttc 60
 ccctccatgg ccacgctcca gcacgctctc ctactccgt ccccgctctg ctgctgctcg 120
 cagctctcc tccaccaag ggccaggaag atatctccga ggtaccaga tggggccttc 180
 tccatggcga agccattctt ggggcgcgag ctcccgaga ggggcggcac cttggcgcgg 240
 agaatggcgg gcgggcggcg ccttggcgtg gccggggccg ggaaaggccc cttctttggc 300
 ggcgggcggc ggcagggggg gaccggccgc ggccgggtcg tggcgaacct cgccttcgtc 360
 gccctcgtgg cctacctcgt ggtgag 386

<210> 278
 <211> 299
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189007c11b1

 <400> 278

 cctcgttgtg attaagactg caaattatga ggtcaggaag tatacaccat cttcagcagc 60
 tgaagcaaaa ggtgaaaaac taacaggatc atcaggtcat aacactgtta ctgggtctat 120
 atttggcacg aatgcttcat ctgagaagac tgcactgact acacctgtat tgactcaggc 180
 ttctgatgac gaactctaag acgcatccat acagatagct ctgccaatga acaaagactt 240
 gaacagttta ccagctccaa atacagaagc ggttaccttg cgaaaggctg aaggaggca 299

<210> 279
 <211> 226
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189007c12b1

 <400> 279

cgctgttcac tcttccgcac acataaagca gtggtgcaat acaacgattg gacctagcaa 60
gaaactagct agtttttgtt gtagagaaac ttagctagtt aacgccgtgg acgacgaata 120
tggtgggtag cgctaggggtg ctgctcgtag ccgccgtggt aggggtttttg gcaaccacgg 180
cgtgcgaagc cgtccagtcg gactacgcca ccgcgctcac caagtc 226

<210> 280
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d05b1

<400> 280

tgatcttcca ttgcctgggt caggctatga aaaggcacag aacgctcggc ggttcattgat 60
ctatgttcac tccaagatga tgatagttga cgacgagtac atcatcgtcg gatcagccaa 120
catcaaccag cggtcgatgg acgggggggag ggactcggag attgccatgg gcgcattcca 180
accacaccac ctgaacacca aagggcaggt tgccagaggg cagggtccatg gcttccggat 240
gtcgtgtgg tatgagcacc tcggcatgct gcacaacgac ttcctcaacc cggaagccg 300
ggagtgcgtc cagaggggtga acacgatggc tgacaagtac tgggacctct atgccagcg 359

<210> 281
<211> 104
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d06b1

<400> 281

cacaaacatg tgcacaactg gtacttgtaa taatggatga tgccaataag attgtgaacc 60
ttaattcatc aggagtgtga ctgaatttgc aagtctgctt catc 104

<210> 282
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d07b1

<400> 282

gtcagtcctgg actacccgct gagtttaagc atataagtaa ccaggaggtg gaagc 55

<210> 283
<211> 145
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d08b1

<400> 283

cttgtagtgg ttatcatttg ttcaatacta ttggtactga aatgggtattt gcatgtgtgt 60
ctgcgcaaat agagaatagt gatgaaccct ttaggttatt cagtgtacaa ggggattcga 120
gcttctatgt gattatattg taata 145

<210> 284
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d09b1

<400> 284

aattgtttca agactcagat ccagatgcaa ctattgtgga agtaaccttg ggtgaccgtc 60
ttggggatct ccttgatact atgagtgcct tgaggaattt agggctaaat gttgtgaaag 120
ctagtgtttg cctcgattct tctggcaaac acaataagtt cgctataaca aagtcgtcaa 180
ctggtcgcaa aattgatgac ccagagttgt tagaagcagt aagactgaca attataaaca 240
acatgcttga gtatcatcct gaagctagca gtcaattggc catgggtgca acttttgggc 300
tagagcccc tacagaagtg gttgatgtgg acatagcaac tcacatagag atctatgacg 360
atggtcctga aagaagttta cttgttgtgg aatcagctga ccgtccaggg ttgttggttg 420
atctagttaa gatcattgct gacatcaata tcaactgtcca atctggagaa tttgacactg 480

<210> 285
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d10b1

<400> 285

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 ccgccctccc gcctcaccgc cggccccgta cgccatgtcg aagcaaggag ggaaggccaa 120
 gccgctcaag caggccaagg tcgccgagaa ggactacgac gagaatgacc tggcatacct 180
 ccagaagaag aaggatgagc aaaaggccct gaaggagctg aaggccaagg caggccagaa 240
 ggggtgcgctg ggaggatctg gtctcaagaa gagtgggaag aaatgagtct gccaccctt 300
 acgtaatgcc cagaaaatga taatctatct atctacctat ctgtgtcgcg cttcactatc 360
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<210> 286
 <211> 340
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007d12b1
 <400> 286

cgacctcaga gctggaggcg aagctcgacg agggccgccc ccgctggag gcagagctcg 60
 tggaggcgct cgcgagcctc gaggggcaga aggaggaggc catcaaggcg ctggacgcgc 120
 agatcgtgtc gctcagcgac gagatcgtca agaagggtgt cccatccgcg tgaaaactag 180
 tagatcacgc agcgcgcagc agccggcgca atccccggt tcatagtaaa gatttctagt 240
 tcttgatgtg taatgtatac gccactggg ctgcctcccc taagaatgta actgaatcaa 300
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<210> 287
 <211> 344
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007e05b1
 <400> 287

cagattgtga cacgggacaa cccgtcccca agggcctact tccgatgcgc cttcgcaccg 60
 tcctgccgtg tcaagaagaa ggtccagaga agcgcggagg acagctcggg ggtggaggcg 120
 acgtacgagg gcgagcacia ccaccgcac cccacgcggg ccggcgagct gccgagctgc 180
 gccacgcagg gcggcggctc ggtgccgtgc tccatctcca tcaactcctc cgggtccgacc 240

atcacgctgg acctcaccaa gaacggggga ggcgtgcagg tcgtcgatgc cggggaggcg 300
 caaccggaca tgaagaaggt gtgtcgggag gtcgcgtcgc caga 344

<210> 288
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007e06b1

<400> 288

gcggttaaga ggaaggagag cagagatgac tgcgtccgtc tcctacgggc tgcgagcact 60
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 gtcggcgcggt gggccccggt ggacgcggcc ccttcggacg ccggcgagga tgggcaatgt 180
 aaacgagggc aagggcatct tcgcgcccct ggtggtggtg gtgcgcaaca tcgtcggacg 240
 caagcgcttc aaccagctca ggggcaaggc catcgcgctg cactcccagg tgattaccga 300
 gttctgtaag accatcggcg ctgaccccaa gcagaggcag ggcttgatcc gcctcgccaa 360
 gaagaacgga gagaagctcg gatt 384

<210> 289
 <211> 335
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007e07b1

<400> 289

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 ccctgcggcg cccatggcgg catcccgctg cgcgctcccg ctgtcgtcga cggccgccag 180
 gggcatgagg ctccgcgcgc aggcgacgta caaggtgaag ctgatcacgc cggagggcga 240
 ggtggacctc gaggtccccg acgacgtcta catcctcgac cagcccgagg aggaagggat 300
 cgacctgccc tactcctgcc gcgccggctc ctgct 335

<210> 290
 <211> 417

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007e08b1
 <400> 290
 aagatgttcg ggaccgaggc catctacgga tccgccttca acatccgcag ggatctcgac 60
 gccagatcc tctccagggt ccaaaggccc ccagggtgcat tgccatcatc tatgctagga 120
 tatgaggcga tgacagggttc cttggatgat tttggatttg aagattacct taacttgccc 180
 caagactctg acagcctccg cataccggac atgcaccacg gaatggaggt tcgccttggc 240
 ctgtcgaagg ggcccatctg cccagtttc aattgattcc acccatgtat tagtcttgtg 300
 atacgtcgtg ctccccgtcc agcatctata accagtcact agactgtatc atggatttgt 360
 gaaacgcgag aactaaattg gcattgcac agtttgaaat tccttaactt cgattgg 417

<210> 291
 <211> 393
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007e09b1
 <400> 291
 tcgcccactc gtgcgcccac gcgtccgcgg cccatctgag cttgctgtca aggaagctgc 60
 ctgggggtctt gcccgttacg cggccatctc acaggacaat gggctgggtgc cgattgtgga 120
 gcctgagatc atgctcgacg gtgagcacgg catcgagagg accttcgagg tcgcacagaa 180
 ggtgtgggcg gagaccttct actatatggc ccagaacaac gtcatgtttg agggcatcct 240
 cttgaagcca agcatggtga cccctgggtgc cgagtgcagg gacagggcca cccctgagga 300
 agtagccagc tacaccctca agcttctaca gagaaggatc ccccttccg tccccggcat 360
 catgttcttg tctggtggtc agtcggaggt gga 393

<210> 292
 <211> 109
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007e10b1
 <400> 292

gaacttactc ccatagcgga gcggcagtct ccgcattgtg gaatgtttaa taagaggttg 60
agttggagtg ggttcagtgg atgtcgtaat aactaatttt agctttttt 109

<210> 293
<211> 278
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007e11b1

<400> 293

ccttatctga aattaggact tcttgcatat cgagtgtctt ttctagacct ccaccccccc 60
tccccccctt aatattggct cctaagtttc agttaggctt aggaatctat atttgtggct 120
ccatcataac attgaaggca cagagatgag agcatgctaa ttgaaccata ttggttgat 180
tgtatgagct ggtcacttat tgaatgacct atgctggcgc tgagttcata tttgacagaa 240
ctggagagga aaaagcagaa catgtggtct gttactag 278

<210> 294
<211> 88
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007e12b1

<400> 294

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgccgcc cagcgcgcc 60
cccacgcgtc cgcccacgcg tccggcga 88

<210> 295
<211> 344
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007f06b1

<400> 295

gggtaataga actatatagt gttggggggg gggggggtcc aaggtttaaa ttttggggca 60
catgaatatt tcagacccca acctaaatta ttagagcaaa atttatcata ttttttacca 120
agaaaatgtt tttagatga atttaatttg aatctagcta gtccaaattg catatagaaa 180

agtatatttt atttcctatg ggagggtgccg atgaaactat ttatatgtgt atggaatcta 240
tctcaagaaa cttggaactc ttgattatca gctattcttg ctactcctaa gtgtaggctt 300
acaccacata gggcaaattt agcaggtttg aaaagcaatt caca 344

<210> 296
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f07b1

<400> 296

gagatctcac gcaaggagca cgaggaggag gcaagggaag ccgccgccgc cgccgccccg 60
tcctcctcgc ccggccggcc gccacaggtt tcaagatgtc aacctgcacg tttgcagctt 120
cctgtgccct cttgggcaat gctcgaacaa ccgatgcccc ccagaaagcg gtcaagagcc 180
gcctgagctt cctcgccga ggcgcgccgc agctgcggag cctgaggtcc tccttccct 240
ccaagaagct ggtgacatct gcatacaagg ggacgagcac gtacaagggtg aagctggtga 300
ccccggaagg ggacgagcac gagtttgagg cgccggacga cgcttacatc ctggactcgg 360
cggaga 366

<210> 297
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f08b1

<400> 297

aagtctataa ggctgctgag actgatcgta tctatcgcat gaagctgcat gagtatctgc 60
aaaagatcaa tgaagggaag atatttggtc ctgttatctc tgttatccac gacatcgaat 120
ttttaaaaaa agggctaccg catgcccggt tccttgtttg gcagaagaaa aaacataaca 180
aagtggatcat ccagcttttc atgaaaacct ttgcttcagc cactggtggg atctgaactt 240
actgatacta ttggcgatgt tcctgggtat ggtcagatgc ctaagctaga aagagatgag 300
ccggctgttg cagcgtatga ttcacagggc acattagagt cgagctgaac ccaactttca 360
aatgagcata agaaagcgat gattttgtgc atggagtctt gctgccttga tcattggtac 420

ctcggccctc gctatcttca ccccacgaca agtaacaatt accttttg

468

<210> 298

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f09b1

<400> 298

gttctctcag cccatggagg ccatcaagaa gggcctctcc cgggcgctcg ccactacta 60

caccatcgcc ggccgcctca ccgccaccgc cgacgaagaa ggtgtgctcc tccacgtcgc 120

gtgcaccggc gaggggtgtgc cgttcgtggc cgcgctcggc ggatgtgcct tgcaggatca 180

cgggctcctg gatgcgccct tcacgacgag cctcctggat gatctcgtcg tgtactaccc 240

ggcacctgag ggctgccgga gcacggaccc gatgctgctg atgcaggatca ccgagttcgc 300

ctgcggcggg ttcaccctgg gcgtgacgtg gaaccacacg ctagccgacg ccacgggcat 360

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<210> 299

<211> 66

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f10b1

<400> 299

cgcgttcgtt agtgtgatca taaattctct tcgaattaca ttcaaata ttgagatctt 60

cgctag 66

<210> 300

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f12b1

<400> 300

gctgccccga tgtatctccc gccttagagc ttagctgcgg ttttttaatg ctatactaaa 60

gtcaaacatt aaggaaatca gctttgtcat gttcgagaag aagaggggtg ttagctgtga 120

atcctgtgcc tcttcagcca tgatcttctt caagcttgtc tcccagatcg tggaggaaac 180
gccatcactt tttgcttttc tgtccgggtt ggaaaaggac ggggggttga cccgttaagt 240
tcctatttga cctgtgcggc ttgtttaaaa gtgggacagg aaaatggaca tacagggtac 300
aagggacagt gaacagttgt cacaa 325

<210> 301
<211> 277
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189007g04b1
<400> 301

gcttgatcgc atacctgatc ctcccagcta gccatgagga acaaacggac ggtgctggcg 60
aaccaggcga gacatgcagg gtcccaagta ccgatcacca aaggtggctg gaaagcgggt 120
tggatagtta ggtttattcc ctagctctct ttttctctg tcatcgctcg attatccgta 180
tttcagtttg cttagctcta aagactcctc ctatagtggg atcatcggaa tcaccagaaa 240
aagagaaaag agaacctgtg gcaagacaaa ggtagtg 277

<210> 302
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189007g05b1
<400> 302

cccacgcgtc cggaaaaaag agaacagcaa cggaataat ctgcctcctc ttcctcctcc 60
ccctccccgt ccgcgtgcga tcgacgcgga ggcgcgcgcc gtccccctcc gctccgcccc 120
gacccgaccc catggccttc atgcgcacct cctccaatgc atcctctggc atgggagttg 180
ctcctgatat caggagagaca ttcctggagc ttcagatgaa gaaggcattt cgctatgtca 240
tcttcaaaat agaagaaaag caaaagcagg ttgttgtgga gaagacgggg gctacaactg 300
agagttatga tgatttcctg gcttgtctcc cagaaaacga ctgcagatat gccctttatg 360
atcttgactc tgttactggg gagaatgtgc agaaaagcaa gattttcttc attgcctggg 420
cccctgacac at 432

<210> 303
 <211> 284
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007g07b1

 <400> 303

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 cgagattgag cgtgttgcca aggctaaccg gtaagatgga tgtgcatctg agggctctcg 120
 ttttggtgag agattttgaa gtgaatgtgt tctacaagat atctagaact gttttagcta 180
 tgcgttaagt tttatggaat gaacatttcg atgtagtggc aagaacgtgc ctgatgcttg 240
 tctttgtgaa acctattcct gttcagacat atttggatat gttg 284

<210> 304
 <211> 363
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007g08b1

 <400> 304

 ggaagaatgt cgcatacatt ccgtgaaatg aaagttggtg attatatgtc tgtaaaggga 60
 cctaagggtc gtttcaagta ccaagtagga caagtgaagag ctttcggaat gctggctggt 120
 ggatctggca tcaactccgat gttccaagtt gcaagggcaa ttctcgagaa ccctaatac 180
 aaaacgaagg ttcatttagt ctatgcaa atgtcacacctg aagacattct tctgaaggaa 240
 gagctggaca gcctggccga agaatacct gaccgcttca agatcttcta cgtgttgaat 300
 cagcctcctg aagtctggaa tgggtggtgt ggctttgtgt cccaggacat gattaagact 360
 cac 363

<210> 305
 <211> 428
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007g09b1

 <400> 305

cccacgcgtc cggctccggc cgccagcgc aatgccgctc tgcagcttct acgcctccac 60
 gtccctcccg gtgccgaaac cccactcctt gccctcctcc gccgcggcgg tcaccaccgt 120
 gcaggcaaag aagtcgccgc cggccgtggc tggggctgcg gcggcgaccg tcctgccgac 180
 gacggccgag agcacagcgt cgatgatgcc ggccgaggcg ctgtcgctgc acctgccgga 240
 gctgccgtcg gcgatgcggg acaagatcct gagcctggag ctgatggggg tggactacgg 300
 gcgcgcgctg tcgctgaacc cggcgctccg ggacgcggcg ccggagtcca tccacgcggt 360
 ggtgaccttc ctccagtcgc gcgggctcca cttcaaggac ctgggcccgc tcttcggcat 420
 gtgcccgt 428

<210> 306
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007g10b1
 <400> 306

tttctcctcc tagcaagcta tatacctaca tagcacagcc atggcccca cctgatggc 60
 ctgctcgcc acctccgtcg ctctttcca ggggtcaag tccaccgcg gcctccccgt 120
 cagccgccgc tccaacggcg ctagcctcgg cagcgtcagc aacggtggaa ggatcagggtg 180
 catgcagggtg tggcccatcg agggcatcaa gaagtgcgag accctgtcct acctgccacc 240
 gctcagcacg gaggccctcc tcaagcaggc cgactacctg atccgctcca aatgggtgcc 300
 ttgcctcgag ttcagcaagg ttgggttcat cttccgtgag cacaacgcat cccctgggta 360
 ctacgatggc cgttactgga caat 384

<210> 307
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007g11b1
 <400> 307

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 cattaccctg gggagcccg cgggtgcagc gtgctgctcg ctgatccagg ggctggcgga 120

cctggaggcg ggcgcgtgcc tgtgcacgac gctgaacctc aacctcctgg gcatcaacct 180
gaccttgccc atcgccctca gcctcgctct caacaactgc ggcaagaacg tcccctccgg 240
cttccagtgc cccaactgag cccggccgga ccttgcatgc tgcattccgc atacctcatg 300
catgcatgca tgcattgatt gctatttgaa gtaccaccac gtact 345

<210> 308
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007g12b1

<400> 308

atctgtccac tcgtgcgccc acgcgtccgg ctctctctag caagctatat acctacatag 60
tacagccatg gcccgcaccg tgatggccta ggaggccacc tccgtcgtct ctttccaggg 120
gctcaagtcc accgacggcc tgcccgtcag ccgcccgttc aacggcgcta gcctcggcag 180
cgtcagcaac ggtggaagga tcaggtgcat gcaggtgtgg cccatcgagg gcatcaagaa 240
gttcgagacc ctgtctact tgccaccgct cagcacggag gccctcctta agcaggtcga 300
c 301

<210> 309
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007h04b1

<400> 309

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cggcaatgga gcatcggggc ctgcttctcg tctcgtcgc ggccggcgtgc ctctcgggcg 120
gcgcccacgc caggcacgcc aagaagtcgt acggggccgt cttcagcttc ggggattcgc 180
tctccgacgc cggcaacctc atcgtcgacg gcatcccaa gtcgctcacc accgcgcggt 240
cgccctacgg catgaccttc ttccggccgc ccaccggccg ctgctccaac ggccgcgctg 300
tcgtcgactt cctcgccgag cact 324

<210> 310
 <211> 400
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007h06b1

 <400> 310

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 gcttaatgcc gctgtccgcc gcgtggatgc actggaagcc gaactcattg taacaaagaa 120
 ggccctgcac gaggctctta tcaggcaaga ggaactactt gcttatgtgg acaggaagac 180
 aattgccaaag gccagaaaaa agaagaagaa gccgatgtct tgctactagg acacaaggag 240
 agagagagag agagccccct ttggttccag ttttcttttc tctgagatgc cggagatggc 300
 gtttgagatg atgtaaacgg ttgatccgtt cgttttcctg acaaagtga aaaggacaga 360
 catatggggtt tgtaaattga cagaaaatcc tgacataaat 400

<210> 311
 <211> 402
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007h08b1

 <400> 311

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 tcagagagat tgcagaggag agtgcggggg caaaagctcg gatgaatatt taccttgcac 120
 tgacggcgat actcgggtctt acaatcgcaa atgccgtctt tgcaacgcca gaggtggaat 180
 ggaggaagggt tgctgctctg ggtctaattt tcattggcct ggttgctcag gtaatctatg 240
 agcaagatat atccccaccg gtagctgaca aggatgaaaa aagagaagaa tgaaagagct 300
 gtgcaccctg agtgaaacat caaaaagcag caagagcttc atcgatatag acgtagactg 360
 tataaattca agatatagat tgtgtaattc tagttatcat tt 402

<210> 312
 <211> 223
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007h09b1

<400> 312
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 cacggacgca taatattata caatatgtca actatatacg ttttaatggg taaaaaaaaa 120
 aaaaaaaaaa aaagacaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaatacata 180
 aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggccgtttt aaa 223

<210> 313
 <211> 358
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007h11b1

<400> 313
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 agaaagatgg ggaagatgcc ggtgcggatg aaggcgggtg tgtacgcgct gtcgccgttc 120
 cagcagcagg tgatgccggg cctgtggaag gacatcacca ccaagatcca ccacaaggtg 180
 tccgagaact ggatctccgc cacgctcctc atcacccccg tcgtcggcac ctaccagtac 240
 gcgatgtact acaaggagca ggagaagctg tcccacagat actagatgtg aagctttgtc 300
 aaatgtcaaa gcagttggaa tttccatgtt ctataatccg ccaagagtga tttaacat 358

<210> 314
 <211> 293
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007h12b1

<400> 314
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 gcccggaag gcggtgatcc ttctccaggg tcggttcgcc ggccggaagg cggtcattgt 120
 gcgcgttttc gaggagggca cacgcgaccg cccctacggt cactgcctag tcgccggcct 180
 agccaagtac cccaagaagg tgatccgcaa ggactcgtcc aagaagacgg ccaagaagtc 240
 gcgcgtgaag tgcttcctga agctgggtcaa cttcacccac atgatgccca ccc 293

tacatgttac agttggtacg gttaattaca cataaacagc gcaaacggca taatcaccac 180
acgacacgaa ggagaacgaa cgacatggtg agcaacatgg agaaggaaca cggccaacag 240
aaagtacacc tggaactcta agtctccttt tcctttgggt cagggagaga cttcctgaac 300
caggggatca gaacagaggt cctcttctgg tacagcctgt aggcctctgc ccggtgctcc 360
tgcttcagca tgcgccgctc gacgagcagc gtgacgtagc cgaggcacat gct 413

<210> 318
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008a06b1

<400> 318

cccacgcgtc ctcccacgcg tccgcccacg cgteccgagag aagcaaactg gaagcatcta 60
cgagcactgg gatattcttc ctccaagga aatcaaggac ccagaagcta agaagccaga 120
ggactgggat gacaaggagt acattcccga tcctgaggac gtcaagccag agggctacga 180
tgacattccc aaggaagtca ccgacctga tgctaagaag cctgaggatt gggatgatga 240
ggaagatggt gaatggactg cccaaccat cccaaccca gagtacaagg gcccatggaa 300
gcaaaagaaa atcaagaacc ctaactacca gggcaaatgg aaggcaccta tgattgccaa 360
cccagacttc aaggatgac cttacatcta tgctttcgac agcctgaagt acatcggaat 420
tgagctgtgg caggttaagt caggaacttt gtttgacaac attctcatca ctgacgatgc 480

<210> 319
<211> 268
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008a09b1

<400> 319

ggctcatggc agcgcaaagc gtgtgttagc tgatgtgatg ttacaccgta gaatcatcat 60
cgttcgtgac gataataatg atccgacgag aacctctatt gtcattgttc tgttgctatt 120
gtgtagttta ctctgtatct gaactcggtt tagtctgcgg aaccgtactg ctatgatgaa 180
tgtgtcgatg taaatcgtgg ctgtcgtgcc tgtctgactg atacattgtt atcgtagtcg 240

<210> 322
 <211> 269
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189008b03b1

 <400> 322

 ctccataac gttgtaaaat gtactacagc aaccaaactt tccagcagaa tgtagcagt 60
 gctttgtaac ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaacia aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggggcccttt aaaaaaaaaa aaaataaaca 240
 cccggtgcat ggaaaaaaaa attttttttt 269

<210> 323
 <211> 486
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189008b04b1

 <400> 323

 tttggctaca tccgtctttc tgaaagactt cggaaaacag caagcgcacc cgcaaaggct 60
 cctccacggg ctgatgtgat taaaagtctg aaaaatggca ttgtgctcaa tattcttggg 120
 atgggcgcag ctgttctcgg tatgcaggca cttgttggtg ctttggtagc aaaagccctt 180
 actacctccg cagtccccta ttatcaggca acttccgccg gccaaagtcc tgttttggct 240
 ctagatgtat tcctggttca ggctcagca aacaccatac tgcgcattt cctaggtgtg 300
 gcgacttccc tggagctgct ccgttccgtg tcaatcgccc cgaccgagcc tgctgcgaca 360
 tgagccagga gcccaagagc tgctggattc ctttactttg cacttgtttt cttttctccc 420
 tgactgccta ggaatagcat ctctgtgtcg ccggtattat gtcttgacat ttcggcttaa 480
 atgagc 486

<210> 324
 <211> 79
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008b05b1

<400> 324

cccacgcgtc cgctgctact ttcagcggtg ttgagttgta attgatgctg ttttgcgtga 60

acatgggtac cttatgggtc 79

<210> 325

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008b06b1

<400> 325

cccactcgtc cgctgccgcc agcgccacag cctccaaacc ctgatctcc cgcacgagag 60

ctccctgccc ccaaccccc accccacccc aaccatggcg gaccgcggcg gcgagcgtgg 120

tggcgaccgc ggaggcgagc gcgggcggtt cggccgcggc ttcgggcgcg gcgggcgcg 180

ggaccgtggc gggcgccgcg gcgggcgtcg tggccctcgc caggaggagg agaagtgggt 240

gcccgtcacc aaactcggcc gcctcgtcaa ggagggccgc ttcaccaaga tggaggagct 300

ctacctcac tcgctacca tcaaggagca ccagatcgtg gagcagctct gccgggggct 360

caaggacgag gtgatgaaga tcacccccgt gcagaagcag acccgcgccg gccagcggac 420

ccgcttc 427

<210> 326

<211> 297

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008b07b1

<400> 326

cccacgcgtc cgggagctgc agatattcaa caagaggtgg aaggaggcgg tggcggagga 60

catgtgctgg acggaccct accgcagcc gccgacgcc acgccaagg gatgaccac 120

ggtgcccgcc gccggcgatg tcctttgcgg ttgagtagat gacatagaag atacatcaaa 180

atttacaggt ctagagagct tcagataaca tgcatgtac agatctctt cttcccggtc 240

aataagatag gttcaaagac gatgtaatta tcataatttt cggtaaaaag atggatt 297

<210> 327
 <211> 183
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189008b08b1

 <400> 327

 cccacgcgtc ctggaatgtg aggctatattt ggcttgttga tgttgctggt gtgtgttttt 60
 ctaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaataacaa aactaaataa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacggg 180
 ggc 183

<210> 328
 <211> 478
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189008b09b1

 <400> 328

 cgcgcgcgcc ccgccgcggc atcgtcgtgt gcagcgccgc ggccggcgcc gaggcctcgg 60
 aggcggagcc cgtggagaag ttccggctcg acaacctgag cccgcagaag ggggcgcggc 120
 ggaagccgaa gcggaagggg cgcggtatct cggcggggca gggcgccagc tgcgggttcg 180
 gtatgcgcgg ccagaagtcg cgctccgggc ccggcgctccg ccgaggggttc gagggcgggc 240
 aaatgccgct ctaccgccgt cttccgaagc tccgcggaat cgccggcgga atgcatatcg 300
 ggttgccaaa gtacgtgccg ttcaatttga gggacatagt gcaggggtggg ttcaaggatg 360
 gcgatgagat ttccttgag tccttgaaat cgaggggctt gatcaatcca tccggcaggg 420
 aaagaaagct tccactcaag attttgggag atggtgatct atcagtcaaa ttgaacat 478

<210> 329
 <211> 491
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189008c02b1

 <400> 329

tgaggaacaa gatccttgcc gcggtgagca ggagggacgc cttcatgctg cgtctcatcg 60
 acaacgagcg ccggaggctt gacgatggcg gcgccgaagg cgacaagaag agcatgatcg 120
 ccgtgctgct cactctgcag aagacggagc cagaggtgta caccgatacc atgatcatgg 180
 ctctctgcgc gaatttattc ggggctggaa cggagaccac gtcgacgacg acggagtggg 240
 cgatgtcgct gctgctgaac caccggcgcg cgctgaggaa ggcgaggac gagatcgacg 300
 cggccgtggg gacctcccg ctggtgaccg ccgacgacgt gcccggctg gcctacctgc 360
 agtgcacgt gagcgagacg ctggcgctgt accggcggc accgatgctg ctgccgcacc 420
 agtcctcggc tgactgcaag gtcggcggt acaacgtgcc gagcggcacg atgctgatgg 480
 tgaacgcgta c 491

<210> 330
 <211> 225
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189008c04b1
 <400> 330

cccacgcgtc cgccacgcg tccgctctgc atgctttacc atgcggagct aaaattacgc 60
 tgggcgccta ttagtagaat ttggcattgg ttttgtgtcg atgccggggt tcagagctaa 120
 aattttattc tcacgccaag actcgtatca agagttgttt tttagaggct gtataccgaa 180
 ctactgtcga tcatatcaat atgaatagaa atgatttttt gtttc 225

<210> 331
 <211> 260
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189008c06b1
 <400> 331

agaattgtgag accattaaca cggttaaagc taaactgctt gaagtctagg caaaaagagg 60
 tactctttct acaactatat tagtattagt accgaattta aacgggaaat agctaattga 120
 aaatttatct gatatagaac actcatatcg ataaaatggg ttgaactatt tactagaaaa 180
 aaaaaggggg caccctgccc ttttttaacc aatgccgaat cgacgaccta tgtataaaaa 240

agagaaattt tttggatttg

260

<210> 332

<211> 76

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008c07b1

<400> 332

gtagtaaagt aattaatatc atatgtcaac tgtctctgtg tgatctttag catttgctaa 60

ttgattcgat taaaaa 76

<210> 333

<211> 305

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008c08b1

<400> 333

ctctgttcga aatctttggg gacgattctg tattacaatt tgggtggagga actttaggac 60

atccttgggg aaatgcacct ggtgcagcag ctaatcgagt ggctttagaa gcctgtgtac 120

aagctcgtaa cgaagggcgc gatcttgctc gcgaaggtaa tgaaattatc cgagcagctt 180

gcaaattggag tcttgaacta gccgcagctt gtgaagtatg gaaggcgatc aaattcgagt 240

tcgagccggt agatactatt gataagtaga taaaactaaa gataaagaag agaaggtatt 300

actcc 305

<210> 334

<211> 317

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189008c09b1

<400> 334

gaccgaaatc tttggggacg attctgtatt acaatttggg ggaggaactt taggacatcc 60

ttgggggaaat gcacctgggtg cagcagctaa tcgagtggct ttagaagcct gtgtacaagc 120

ttcgtaacga agggcgcgat cttgctcgcg aaggtaatga aattatccga gcagcttgca 180
aatggagtcc tgaactagcc gcagcttggt aagtatggaa ggcgatcaaa ttcgagttcg 240
agccggtaga tactattgat aagtagataa aactaaagat aaagaagaga aggtataaat 300
aaaaaagaaa cgaanna 317

<210> 335
<211> 398
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189008d01b1
<400> 335

cccattcgtc cgtggacatc ggccgagaag gttccggaag gatgcctcgc gcgggggttgt 60
cggcggggtc gagcaaggcg gacgtggcca tcgacctcgg gaaccgcgtc ctcaaccgca 120
ccgtcgacgg cttcctcaag atcggcgccg acggcgcttg caggggtggcc gccgaggacg 180
ccttcgactg cctccaaagt gggagtgtct cgaagcacia gcttgagaag aactggaaa 240
aaatgtgcaa ggagggcgca tattgggggtg ctgttgctgg agtgtatgta ggcagggagt 300
atggagtgga aagggtccgc ggagagtatg actggaaaaa tgcgttgatt ggaggcatcg 360
tatggcgcg cctgatctct gctgctagca acaacaaa 398

<210> 336
<211> 428
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189008d02b1
<400> 336

cccactcgtc cgcggacgcg tgggctgatg tgcaaaaccc atcggccgcg ctgacggagg 60
aggcgcccgc ggtggagacg cccgtcgccg ctgaggaggt cgcgaagacg gaggaggtcc 120
ccgcgccggc ggagaccgag gtcgaggcgc ctgctgcccc cgtcgaggtc gtggagacca 180
aggaggaggc accggccgcc gccgagacgg aggatgcaa ggaggccgag ccagcagctg 240
cggccgagcc ggaggccgag ggcgccaaag agacagaggc gccagccgtg gtcgagacag 300
agaccaagga ggccgtggct gaggcagagc cggcggcggc cggggaggtg aaggaagagg 360

cggcgcctgc tgccgagggc gagccggccg ctcccgtgc tgctgaggaa gcaccggtgg 420
aggcagcc 428

<210> 337
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008d03b1

<400> 337

gcaagaagca ctcaggaagc tcctagccaa caccaatcaa agcctccatc caatcccaag 60
caacctcgaa gatgtcttgc tgcggaggaa gctgcggctg cggcagcgcc tgcaagtgcg 120
gcaacggctg cggcggctgc aacatgtacc cggaggtcga ggccgccggc gccaccctcc 180
tcgtctccgc cactgccacc cacaaggcga gctccggcgg gatggagatg gcggcggaga 240
acggcggctg cggctgcacc cagtgaagt gcggcaccag ctgcggctgc tcctgctgca 300
gctgctagat cattgatcat gcctgcgcgc cgtgcatcat atctatgatc tatctaccat 360
ctactaccat gtaacgctgc ctgatcgagg gtctttgtat gtatgtacgc acctgcctgc 420
atgagcagag cgggtgccat gccatgcatg taaacccta aataaaatct cccgtgggta 480
tgctt 485

<210> 338
<211> 263
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008d06b1

<400> 338

agctttccca acaaccattc ccccagcaac cacaccaacc tcaacaacca tatccacaac 60
aacaaccata tgggagtagt cttacaagca tcggtggcca atgaaatgaa cacctgtaat 120
acaagacgga tggatcatcg ttgttttagtc aatgagcgtt caatgtaacg atgataaata 180
aagtgatgtg caccataatg tgtaaccccg acctatacta gttcaaakat gggaataaaaa 240
gacaaagaaa gttcttgtca cat 263

<210> 339

<211> 420
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189008d08b1

 <400> 339

 gccgtcggcc cgccgccgcc tttctggcag cttctcgggg gcctgcttcc tgtgccggag 60
 ggagctcagt cccgacaaag acgtgtacat gtacaggggt gaccaggggt tctgcagcga 120
 ggagtgccgg ggacagcaga tcttgctgga cgaggcgaga gagcacgagg ccatgatcag 180
 caaggagcgt cgagggtctgg ctcaccgtcg tcaccaccac gggccacgcc cggcgccgtc 240
 gggggcgatc cggggcggtgc ggaggagatt actggcgga gcctagcctg attatgcata 300
 ataatgcatg cacgaacatg acatccatga acaaatcgat caagaaccta tgatgctgga 360
 aagttaatta caagtaatcg aggggcaaata caaggaaacc aatatgcgta ttgcatgta 420

<210> 340
 <211> 447
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189008d09b1

 <400> 340

 cggactcgtg ggcggacgcg tgggattttc atcccctcgc ccgccgccgc cgccgtccc 60
 gccgctagac cagctcgcca gcagcaatgg cccggatcaa ggtgcacgag ctgaggggga 120
 agaacaaggg cggagctgca gggccagctc aaggacctca aggcggagct ctccctcctc 180
 cgctcgcca aggtcaccgg cggcgcccc aacaagctct ccaagatcaa ggtggtgcgc 240
 acctcgattg cgagggtgct cacggtgatc tcgcagaagc agaagtcggc gctgaggag 300
 gcgtacaaga acaagcgtct cccgctcgac ctccgcccc agaagaccg cgccatccgc 360
 aggcgtctca ccaagcacca gctctctttg aagacggaga gggagaagaa gcgcgagaag 420
 tacttcccc tgaggaagta tgctatc 447

<210> 341
 <211> 428
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189008e01b1

<400> 341

gagcgcctcat atatcctcga gacctccaga tctgtgggtct gttgcagtct ctgcctcctc 60
acaacaacaa gcccttgag atggacaccg ccatgcaccc cgccgccggc gacgacgacg 120
tcctcgccga cctgctcacc gtcggcaccg gcaccgacac cgagggcatt atttgtggta 180
tgccagactt caagatgggt ggaaagaggg gcgatgaatc tgcccctact gatgctgggtg 240
atgaagatgg cgaagatgat gacggggacg aggatggcga cttcgcgagg ggcgaagagg 300
aaatctcgga aggagaggag tatgacaacc ccaaggccag tgacgccaag aagaaacaaa 360
taggcgaggg tgaggagaat ggcgaggatg atgaggaaga acaagaggag caggaagggtg 420
gaggaggt 428

<210> 342

<211> 298

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008e03b1

<400> 342

tcgcgcctcg cctcgccctcg gctcggtctg tgcttgtgta ccatggatct gatggattcc 60
cctctatcta tgcttctggt gatacttgat cgttgactt cgtatcagta attggaaaaga 120
tgctgcatgc atgatgcag caattactgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaaa aaaaaaaaaa 240
aaaaaaaaat atagaaaaaa aataaaaaaa aaaaaaata aaaaaagggg gggccttt 298

<210> 343

<211> 221

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008e04b1

<400> 343

ggagtaagca agggaatcca gcattgggtta gaataacagg aaggaaatga gtattgtcta 60
ttgtgtgtac aaagtattgt taggtcatgt ccaagggtta gtctgtctct atgtcgttgt 120

agattctcgt ctacattcat gatctgtgtg ttgttatctg ttcaaatcaa gtcataaagt 180
aagctgtcat gtaaactcat gtattagtgt tatttgtaaa a 221

<210> 344
<211> 225
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008e06b1

<400> 344

gttctaactg aaaatgaagg gtgactacca caggtacctt gcggagttca aggcgggtgc 60
tgagaggaaa ggaaacattg ctggctttgg ctctaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaagggcgca aatggggggg gttct 225

<210> 345
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008e07b1

<400> 345

tatccccca ttctcattct gcacggcaca gcacagcaca gcacagcgga gaagaggaag 60
gagagcagag atgactgcgt ccgtctccta cgggctgcga gcacttccga cgtggtccag 120
ctctgtgtcc ggtgacgacc actgctcggc gctggccatg tcggtgtcgg cgcggggggc 180
ccggtggacg cggccccctt ggacgccggc gaggatgggc aatgtaaagc agggcaaggg 240
catcttcgcg cccctggtgg tgggtggtgc caacatcgtc ggacgcaagc gcttcaacca 300
gctcaggggc aaggccatcg cgctgcactc ccaggtgatt accgagttct gtaagaccat 360
cggcgctgac cccaagcaga ggcagggctt gatccgcctc gccagaaga acggagagaa 420
gctcggattc cttgcttgac ctgcctcaca atccccctt 459

<210> 346
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008e09b1

<400> 346

cacacaccgc acgcgtttga cattttccgc ccaccaccac cggagggagc gagctccagc 60
catggccgcc aagtgctacc cgacggtcag cgacgagtag ctggcgggcg tcgccaaggc 120
caagcgcaag ctccgcggct tcatcgccga gaagaactgc gcgcccctca tgctccgcct 180
cgcggtggcac tcggccggga ccttcgacgt ggccaccaag accggcgggc ccttcggcac 240
catgaagtgc cccgcggagc tcgcgcacgg cgccaacgcc ggccctcgaca tcgccgtcag 300
gctgctcgag cccatcaagg agcagttccc catcctctcc tacgccgact tctaccagct 360
cgctggagtc gtcgccgtcg aggtgaccgg cgggcctgag gtccccttcc acccggtgag 420
acaggacaag cccgagcc 438

<210> 347

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008f02b1

<400> 347

atgagcatcg ccgaccgcct cctccgccag aacctcctcc tggactgcca ggtggacgtg 60
gccaaggcga gcttcgacgt gcggcagccg gacaaagagt tctggaagaa ggtgtgcagg 120
gggttcctca agggcaggct ccagccgcag cagcagaagc agcaacataa gctgcagcta 180
taggagtcgg aggagtcgga gccggcgggc agtccgagaa gaaggccggt gccgccggag 240
gaggaggagg aggaggacat agtagcgtaa ctgagctggg ggggttgca ttgcgagcct 300
agaattaatc cttatttttc tgcttcggag tttgacatcg tcgtcgatcat catcatcatc 360
ttgtacagaa accgcctaatt taatcgaagc attaataaag agcgatcggg gct 413

<210> 348

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008f03b1

<400> 348

cccacgcgtc cgcccacgcg tccgcccacg cgtccggtgt gtgtactacg tgagcgtgag 60
cagctcggca cggacgtccg tacgcgcgtg ggggtcacc accggggcac gcaggcagcc 120
gctgacgagg gccaggccgg cacggtggac cagcggcgag cgggcgcgcc actgtgcgtg 180
acacgcgtgc acatgcatgg cgttcgtcgt ggggcgctcc ccaacgggca gaagctgccg 240
tgctgtggat ctgtgttcgt gttggtgttc gtctcgtgat gtgtttgttt ggttgtgttc 300
ggcgcgtggg gtttcttctc ttgtcatgag actcggagcg tgtgtatggc tctgttcggt 360
tcattcttctc tgctgtaata tatgagcggt tcattgtgca 399

<210> 349
<211> 83
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189008f04b1
<400> 349

tcgccctttc gttcgctcct agcatgctat atacctacat agtacagcca tggccccccac 60
cgtgatggcc tcgtcgtcca cct 83

<210> 350
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189008f05b1
<400> 350

ccaccgcgct caactccaag gtcgtctccc agtactccgg cctcctggcc cctctcgtg 60
tcgacgccgc cctctccgtg gtcgatcccg cccaccogga gcttcttgat ctccgcgaca 120
tccgcatcat aaagaagctc ggccggcaccg tggatgacac cgagcttgct cgccggcctca 180
tctttgacaa gaaggccagc catgctgccg gggggccatc taggatcgag aatgccaaaga 240
tcgctgtcat ccagtttcag atctcaccgc ccaagactga tattgagcag agcgtcatcg 300
tgtcagacta tgcgcagatg gaccgcattc tccgtgagga gcggaattac atcctagga 360
tggtcaagaa gatcaaggcg tctggatgca atgtctcct catccagaag agcatcttgc 420
gtgatgcggt gactgagttg tcgctgcact atctc 455

<210> 351
 <211> 324
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189008f06b1

 <400> 351

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 accccgtcgg cttcaacctc gtcgacgtcc tcgcctgggg ctccatcggc cacatcgtcg 120
 cctactacat cctcgccacc accagcaacg gatacgaccc acccttcttc ggctgatccc 180
 tcccatgtct gcctgcctgc gtgccgaccg gaccggcttg ctgttgtaat ccgccgtggt 240
 ttcattagtt ctctatacgc tgatgatgta ctatcatggt tgtatgtatg tgagatggtg 300
 aaagattaat ctggacaagt agtg 324

<210> 352
 <211> 487
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189008f07b1

 <400> 352

 caagatgaag cctgccccga agccgaagcc cgccccctg gccacctcga gcgtaggcat 60
 cgacgacgag ctcgccaagt ggtacggccc tgacaggagg atctacttgc ccaacggact 120
 ccttgaccgg tcggaggtgc cggagtacct caacggagag gttcccgag actacggcta 180
 tgatcctttt ggtctgggca agaagccaga ggacttcgcc aagtaccagg cctttgagct 240
 catccatgcc aggtgggcca tgctcggcgc cgccggattc atcatccccg aggcgctcaa 300
 caagttcggc gcaaactgcg gtcccagggc cgtttggttc aagactggcg cccttctcct 360
 tgacggcaac accctcaact acttcggcaa cagcatcccc atcaacctga tctcgcgct 420
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 atttgat 487

<210> 353
 <211> 394
 <212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008f08b1
 <400> 353
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 tgctcgacgg tgagcacggc atcgagagga ccttcgaggt cgcgcagaag gtgtgggagg 120
 agaccttcta ctacatggcc cagaacaacg tcatgtttga gggcaccctc ctgaagccaa 180
 gcatggtgac ccctggtgcc gagtgcaagg acagggccac ccccgaggaa gtggccagct 240
 acaccctcaa gctcctccag agaaggatcc ccccttccgt ccccggcacc atgttcttgt 300
 ctggcgagca gtcggaggtg gagggcagcg tgaacctgaa cgcgatgaac caggcgccga 360
 acccggtggc cgtgttcttc tctacgcgc gggc 394

<210> 354
 <211> 441
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008f09b1
 <400> 354
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 tcgtcgagca cctccgtcgc tcctttccag gggctcaagt ccaccgccgg cctccccgtc 120
 agccgccgct ccaacggcgc tagcctcggc agcgtcagca acggtggaag gatcaggtgc 180
 atgcaggtgt ggcccatcga gggcatcaag aagtctgaga ccctgtctta cctgccaccg 240
 ctcagcacgg aggccctcct caagcaggtc gactacctga tccgctccaa gtgggtgcct 300
 cgctcgagt tcagcaaggt tgggttcac tccgtgagc acaacgcacc tcctgggtac 360
 tacgatggcc ggtattggac aatgtggaag ctgcctatgt tcgggtgcac tgacgccaca 420
 cagtgatca acgaggtgga g 441

<210> 355
 <211> 419
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008g01b1

<400> 355

aacgcacgca aaggccgagg aggacaagct aggaggagcg agcagccatg gcttcgtcgg 60
tgggccgccgc ggcgagcacg ttctctggga cccggctggc ggacccggcg ccgcagaacg 120
ggcgcatcgt ggcgcggttc ggcttcggca agaagaaggc cccgccgaag aaggccaagg 180
cgcccccgac caccgaccgg ccgctgtggt tccccggcgc gcaggcgccc gagtacctcg 240
acggcacgct cgtcggcgac tacggcttcg accccttcgg cctcgggaag cccgcggagt 300
acctgcagta cgacgtggac tccctggacc agaacctggc ccagaacctg gcgggcgaga 360
tcctcggcac ccggttcgag gacgccgacg tcaagtccac cccgttcag ccctacgcc 419

<210> 356

<211> 357

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g03b1

<400> 356

tcgcccattc gtccgcccac gcgtccgga aaacagtttt ccgaagcttc gagccagggc 60
ggttggcggc agccgcgggg acgatggctg ggatcttctc caggttctct tccggcgccg 120
gccaccgccg cgccaagagt gccgtggagg ttgtggagac attggcgccc aacatggaga 180
ccgggggagtc tgaccgggca gctgacctg gagatagccc gcacggcatt gaggtcggca 240
tcgagttcaa gccggtggag caccctgtgg agcctgtcaa ccttgaccaa ccagtgaat 300
gcccgcttcc tgagccatct atactgcatg atgggaggat atggcaagag aggatgt 357

<210> 357

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g04b1

<400> 357

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tggaataaca atcgaagatg tgccctcatc aatttgcaac cttgcttgcc tcaaatctgt 120
atcattgaat ggaaacaaaa ttcgtcagct tccccaaaac ttgctgaagg attgcaaggc 180

tcttcagaac ttgtcactgc acagcaaccc aatctcgatg gaccagtttc agcaaagga 240
 tggattcggg gagtttgaag cacgcagaag gaagaagttt gacaagcaga ttgattcaaa 300
 tgtgatgatg ggctccacag ccctggatga aggcatatgat ttacgctagt tttgcgagt 360
 aacttatttt ttcctcatta gtcggaagta attgtaatct ttgtatatat cagtctcccc 420
 acaatctgat tcggtaaaga agtca 445

<210> 358
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g05b1

<400> 358

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 tgctgcggcg gcaagtgcgg gtgcggcgcc ggctgccagt gcggcaacgg ctgcggcggg 120
 tgcaagatgt tccccgacgt ggaggccacc gccggcgccg ccgccatggt catgcccacc 180
 gcctcccaca aggggagctc cgggcgggtc gagacggccg gggagaccgg cggtgcgac 240
 tgcaccacct gcaagtgcgg caccgcgtgc ggctgtcct gctgcagctg caactgagcc 300
 ggcgcccagg aggccggcag aggcgagcac gaggatgagg aggaggaaa gcaagcaagc 360
 accatcgtca ccagttcaca gcatgcgccc gcgcgcgcgc t 401

<210> 359
 <211> 349
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g06b1

<400> 359

ttgcggacgc gtgggcatcg acgaccttgt gtctgtcgac acccttattg aggaagtgt 60
 ctgtgaggcg cccatcaacg agtatgtcca gtcgtgtgac atcgttgccct tcaacaagat 120
 ctagaatctt tggtcgccca cctgttgctg ctggattctt ggtactggga ttggttgatc 180
 tggaaaacat tatgtcgtcc catttagtta cccctcttac agaaatgcta ctggttttgt 240
 ttttgagtga tgccctgggtc ttgaatgcct gctaccttta aatagttgaa ttgctgagcg 300

gtttgtaatg gcgaaacatc tatcatgtgg agtaaaatca gtctttgat

349

<210> 360
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g07b1

<400> 360

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ggttctggaa cagctgcagg tagaaggcaa gagctgctgc aggagcaccg tgggaagaaa 120
ctgctacaac ctttgccgcg cccgtggtgc tcagaagtta tgccgaggcg tctgtaggtg 180
taaaatctca agtggcctaa gctgccctaa aggcttcctt aaattggccc ttgagtccaa 240
ctcagatgaa ccagacacca ttgagtactg caacttgga tgtaggtctt ccgtgtgtga 300
ctacatggtc aacgcagctg ctgacgatga agagatgaaa ctctatgtgg aaaattgtgc 360
tgatgcttgt gtcagtttct gtaacggtga tgctggcctc ccatcccttg atgcgtactg 420
atgcgtgtcc atggtctgag atttcac 447

<210> 361
<211> 290
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g09b1

<400> 361

ctccgagtac gaaaagattg ttcgatgatgc tccgccaccg cattcgcac gaataactga 60
tatattcagc ttcaggaggt cgagacctt atatggttca ttcaaagggtg gtgctgggtca 120
gatgaagcta taggacaact ttgtttcgag tcatatttac atgtcacact tgaattgttc 180
ctatagaaaa taatgtgtgg gacaaatgtt cgcacttttg gctagggtga atattccata 240
ccaaatctag tagtatcagt ttgaaatttt acatgttgta ttcttctcta 290

<210> 362
<211> 413
<212> DNA
<213> Triticum aestivum

ggaacatctc gtcttcgccg tgaatcgctt ggtggccgaa actctagtag ccaacttctc 60
cagacttctc cagtcacgtt ctgcggcaat tgcagatcgc cggagtggcc tectctggcc 120
atagagaggc cttgccgttt gccgccgtg tcgtcggcag tcatgtggcg gattgaagcg 180
ccggagggcg ccgcttcgac gcgcctacag aggagggcgt tgtcaaccat ggggtgcctc 240
tggtgctgcg ccgctggagc gctgtcgagg ccgaggggtcc tcgtgtcctt ggggccggag 300
ggaggggtcag ggacgggtgga gccgtcgagt tcttggccta attgctctct ggaagaggcg 360
tgcgtgataa cgtgttggag agaatcgaga gagaggagcg aatggaaaac agatatatga 420
atgaacagtt attctattga tcgaagattg gggatattat acc 463

<210> 365
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008h07b1

<400> 365

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gtcgctatc ccctcgctc atcttatccc cctccgtccc cgttctctcc tectcttctc 120
cccgtcact ccccgagcg aagcctcgag agtcccaat ggcttccacc acgttctctc 180
ccgcttctc cactctctct ctccctctt cctcaccate cccctccgcc tcggccccc 240
ggacctccc cgtcgccaac cgccgccgcc gcgccgtcgc cgtcgctcc accgtcactg 300
agtccccgaa ggtccttgag ctggcgacg ccattgccgg gctcaccctt gaggaggctc 360
gcaaccttgt cgaccatctc caagaacgtc ttggcgtctc 400

<210> 366
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008h08b1

<400> 366

tcggcgcat cttgctagcg aaggtaatga aattatccga gcagcttgca aatggagtcc 60
tgaactagcc gcagcttggt aagtatggaa ggcatcaaa ttcgagttcg agccggtaga 120

tactattgat cagtagataa aactaaagat aaagaagaga aggtataaca t 171

<210> 367
 <211> 327
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189008h09b1

<400> 367

cccactcgtc cgaccggaag agacaatgac tggcatctgc aagcaagcaa ttgaatgcat 60
 tatggcggca tcataaatca ggatacagtt cagaagtagt ttgagatcta caaacaagaa 120
 actggctgnc gcataaatga gagcatagtg gcattaggtt cacatcacat ggttgattag 180
 tttcttcaga agttatttga acaaagacac atatattgtt atcgtaaagg aacctgtact 240
 gttgtaatgt gacaaacaga agatttatta ccatgcaaac cggtatgtcc gtagcctgtt 300
 acaagcacgg aattgcaatg atcaana 327

<210> 368
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a07b1

<400> 368

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgcc aactacggct actccccaaa 60
 ctacgtcact gacctgagct acaacgcgca gaagctgggc caagcggcgg cagcggcgcc 120
 aggcgcgggc gggctctaca tgcagccgca ggggcacttc tcgtaccggg cggcggcggc 180
 gcagggaggg atgctcgcgc ccaacggcat gatgcccgtg taccctact accactatca 240
 tcactaccac cacggctcgc aggggctggg cgtcccggcc gcgcgcttct tcccgcgggt 300
 ctccgccgcc gtgcccaccg ttcccgccat catctccaag cccaccgtca tgggtgcctcc 360
 caaagtggag caggtggctg ggtgcagctg aaggcacggt gacggtgcga ggaattag 418

<210> 369
 <211> 81
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a10b1

<400> 369

ctgttaattg tttgtgtacg ggtgatttaa gtaacctgtg cacttgtgct tataattaat 60

cagttgaagc attgcatgaa t 81

<210> 370

<211> 490

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a11b1

<400> 370

gggagattag aggagttcgt tctaaaattg gcaacaacga gtgtcttctg tgctgtgttg 60

atTTTTtctt tcatattgtg gagacgcttg ttcgtttctt caacaaatat gcatatgtac 120

agatagctgt caacggacag agtttcaatc gttcagctag ggatgcttg gagctgttcc 180

agtcgactgg cattgaagca cttattgctt atgattgttc tgggtgctgtt cttttgatga 240

gcacaatatt aggtgggtta attacaggaa cttgtactgg tgtttggaaca tatttcacac 300

aacgtgataa agcaattatg gttggctcga cctctatgct gattggcatg atactggttg 360

ggctagctgt cgtggttggtt gaaagcgcag ttacatcaat atacatatgc tatgctgagg 420

accctcttct aattcagaga tgggatcctg aattttttga gcaaagtca gaagcactgc 480

accagcgact 490

<210> 371

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a12b1

<400> 371

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cgtgggcgag tggagcccg agctggtgaa ccctcacgtg gtccgcgcga tgaaaggtcg 120

catcgaatgg cccagggcg cgaagaagca gagcctgaag tcaaagcctc tggattcgag 180

attcgacggc cgcaaggtcc agctgcgcca agcattgaag cagaagatat aggatggccc 240

gtccacacgc tgtatccaat ttctgaatat aggacgatct tgccttggaa ggggtgcctgg 300
tctgtaagaa ggaatgactt gtagtaacat tggtcctga aatgggtgcc tatcatcggc 360
tgtacctaata tgatgttctg atagcccttt agctcgcata gaatattcac gacgcccttg 420
taatcaaata tagtattagt agtgtctttc aatcaaatac attacttagg c 471

<210> 372
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009b07b1

<400> 372

gcttcacgga ccagcgccca cagcagcgc tccccaccgc cgactactga aaatatcaat 60
ccgaatccca tccatcagtc atcgccatga gagactgaaa ttgcttcaag aatcaagcag 120
gtgttatcgt gtcacagca agcccgctta gtttcacgt ctctctctct tgtctttgag 180
aaattcaggg taaacagtga gtcagtcagt cagtcaggaa taatctcttg tcttggtgta 240
cgtacgtcct caattatgaa tgcttctatt ccatggtcac gattgatgtt tgtcca 296

<210> 373
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009b08b1

<400> 373

ctctcacgga catcctagca accggcggcg gcaggcggaa ggcgaacaag aaggcggcga 60
cgatggggca ctccaacgtc tggaactccc accccaagaa ctacggggcc ggctcccgcg 120
tctgccgggt ctgtggaaac tcccatggac tgatcaggaa gtatgggctg atgtgttgca 180
ggcagtggtt ccgcagcaac gccaaaggaca ttggcttcat caagtaccgt taattcacct 240
gttcttggtg ccctgaagtg aagctgatca gggatgaagg attggagcac ttaatagaat 300
gcttaatttc aattccagta atgtttgctc gtgggtttat gttttgatgg atactgaatg 360
atgtaattgt tgaacatgag ttaattaccc atggagaagt cttttatcgt tc 412

<210> 374
 <211> 283
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189009b09b1

 <400> 374

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 tgatgctggt attgtatgtg tacacaagaa taaacacggt gctgtcacga ggtcctggaa 120
 cctggagttg ctgctgagct gctctgtagt ttacctggta tattctggtg cattggcgac 180
 caggctgcag tgatctcaga ttggaatata cgtctctatg aaggaacata ctttgtaaac 240
 atatgttgtc gaacctttgc tttgtttgcc ggacaagtnt tgt 283

<210> 375
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189009b10b1

 <400> 375

 acctcgccgt ttcagtcggt tcccatcccc cctcgcggtgc gtttcttctt cctccaagtc 60
 caggccgggt gggagagagg cggggcgacc gacgatgaag gagtactgga cgatgctggc 120
 gtccctcatg ggcgcgctgg cgttctctgca aggggtgctg cacgccgtgt tcccggcgga 180
 gctgcgggcg gcgctggcgc ggctgctcgg gcgcctcacc cgcgccttct cgcctactg 240
 ctacttcgac gtcacggaga cggacgggat gagcaacaac gagatctacg acgccgtgca 300
 gctctacctc agcagcacgg ccgcgccggc atcgggggcc cggctcagcc tcacgcgccc 360
 gcacaacgcc acctncttca ccttcgggct cgccgccagc gaccgcgtcg tcgacgcctt 420
 ccgcggcgcg gccgtcacgt gggagcac 448

<210> 376
 <211> 264
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189009b11b1

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<400> 376

gctttgcacc gttgctttgt cggccgtgct gcctgtcgcc gtaaggggca ggccggcggc 60
gaggaggagg agcgccaccg ttgctggcgg cggcagaagg accgtgggtg ccggcgctccg 120
ggcatcggcg gcggcgggcg cggaggcgga ctacagctcc agcgtctcgg tgttccccat 180
ggaggcctgc gacctggtcg gcggcgaggc gtgcgaggcg catatgtacc cggagacgaa 240
gctcggcgcc ggtgcaggcg cccc 264

<210> 377

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c07b1

<400> 377

cgctcactgg ctgcctcct ctcacccatg gccggcgccg ccacgctcgt cctctccctc 60
acggccgccc gcgcggttcc tcttcgcgcc cagcttctca cctggacggc ccccgacccc 120
gcggccggcc ccgccgtctg gacgtcgctg tcggacgccg tcatgggcca cggcgccgac 180
cagccacccc gccgctggat cctccttccc cgcccggcgc cggccatggc gaccaccacg 240
cgtacaagta caaaagccct catgctcaa tgagatccag cgagacaggt tcgtccccat 300
ctagcccggg cagcgctcgt accctgcac gaccagatcc actcgacgtc gtcgtacaga 360
tccgcacgat gtcgacggtc agtggtgagg agcgctctg ccaccaactcc tctgggatc 419

<210> 378

<211> 467

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c08b1

<400> 378

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gctgatgtcc agaaccggac ggccgcgctg acggaggagg cggccgcggt ggagacgccc 120
gtcgccgccc aggaggccac gaagacggag gaggtccccg cgccggcgga ggccgaggtc 180
gaggcgcttg tccccgtcga ggttgaggag accaaggagg aggcgcgggc agccgctgag 240

acggaggaga ccaaggagcc cgagccagca gctgccgccg agccggaggc cgaggcgccc 300
aaagagccag aggcgccagc cgtcgctgag gcagagacca aggaggccgt ggctgaggca 360
gagccggcag tcgctgagga ggtgaaggag gagggcgccg ctgctgccga gccagagggtg 420
ccggccgtcg ccgaggaagc accggctgca gcggagcggg caccgcg 467

<210> 379
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009c10b1

<400> 379

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ccgcctcttc caccaggccg ccgtcgcggt cgctcgctgc ctagatccaa cagcctacgt 120
ccctgctcgg acgcgtgcgc cgagcggagg gacgagcgat ggccgccggc cgtgggctcc 180
cgctcctcct cgctcatgcc gccctcctgg tcgggctcgc ctccgcttcc cccttcatct 240
ccgacggcgt gttccaggcg agcgccggat ctaccacggg gaggaccttg ctgcaggcca 300
agagggattg tcctgtgaac ttcgagttcc aaaactacac cgctcatcaca agcagggtgca 360
aagggccgaa atatcctcct aaagactgct gtgattcttt caaggaattt gcatgcccgt 420
ttaataacta catcaatgat gaaagcaatg actgtgcac cacaatgttc agctacatc 479

<210> 380
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009c11b1

<400> 380

ctctcctggt caccggcgag aaaaagcaag atggactaca tgaatgggcc aggccggaac 60
cacctgttcg tccctgggcc ggtgaacatc ccggaccagg tgatccgcgc catgagccgg 120
cagaacgagg actaccgctc gccggcgatc cctgccctca ccaagaccct gctggaggac 180
gtgaagaaga tcttcaagac caccaccggc accccttcc tcttccccac caccggcacc 240
ggcgctggg agagcgcgct caccaacacg ctctccccgg gggaccggat cgtgtccttc 300

<400> 383

aaatataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggagg acgaatctaa 60

aga 63

<210> 384

<211> 74

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009d09b1

<400> 384

gagtttagca atgttgggct catcttccgt gagcacaacg catctcctgg gtactacgat 60

ggcctctctc cctc 74

<210> 385

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009d10b1

<400> 385

gggttatggc cagcctattg gtcgctacga tgatatgtgg gctggatggg gcaccaaggt 60

gattactgat catttgagcc tgggtattaa gactgggtctg ccctacatct ggcacagcaa 120

agcaagcaac ccatttgtga acctaaagaa ggaatacaac ggcattcttct ggcaggagga 180

gctgatcccc ttcttccagt ccgtgactct ctcaaaggag gccaccactg tccagaagtg 240

ttaccttgag ctggccaagc aggtgagggc gaagctgggc aaggtggatg gctacttcaa 300

caagcttgct gatgccatgg tcacatggat cgaggcttgg gatgagctca acccaccaaa 360

gggtgcaatt accaccacca acggccctgc tctgaagagc aagtgagact gtgagaggca 420

gtagcataca tatac 435

<210> 386

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009d12b1

<400> 386

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tccctagatg aagaaagaga ctctacagct aaagacatgc ttaagaatgc ctcaagtcta 120
ccacctgtac acactcctgt gcaggaacaa tatcttccgc cgtgtgcacc accatttcca 180
caaggaaatg ttaaggaagt gaaccatcag aaagttgatg tgatcaaaga agggagtaat 240
cttcctaata tatttgagat caaatcaagc ttgcttcagc aaatcaggga taagccagat 300
ctgcacaagc tgaatggaca tgaaaagccc aaagcagtat ttaatgatgt taacagtttg 360
gacgaaaggg gggagttgct tcagcaaadc aggagcaaga cattcaactt aagacgaaca 420
aatggatcta agacaaacac c 441

<210> 387

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009e08b1

<400> 387

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atgcatgcga gtcattactt gacagcatca tggcggagaa tgaaaacatt tctgcttgat 180
ctcagaatga atttcctga gccaatgtaa gcgtcacatt ttaatttgat tgtaccaggg 240
atcagttgca aagatgtgga ttagctttct gtgagccatc atctcttcag cccagataat 300
tgtaatgata attaaactaa aatacactct ctcatcacca tgcgtatata tgtgttaggc 360
tggatac 367

<210> 388

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009e09b1

<400> 388

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ggcatgggcg tcttcacctt cgtgtgccgc gactccggcg ccgagtggtc ggccaagcag 120
 cacaagggcg agctcgaggc ctccgccgcc accccctacg acctgcagcg ccagctcgtg 180
 tccgccgcct gcgccgagga caagtccggg ggcggtccagt cctccttcac catgggtctcc 240
 cccaagtccg ccatcttcca ggtgggtcatt ggtggcgctt ctgctgggtcc gatcgggtgg 300
 ggtgggtgctg caggtgggtgc cgctgcatca ggtggagctg ccgccgaggc cccaaggct 360
 gaggagaaga aggaagagga gaaggaggag agcgaggatg accttggctt ctccctcttc 420
 gattagatct tctttacc 438

<210> 389
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189009e11b1
 <400> 389

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 cttttctgtg cgggtgcaagc ccaacaatgc catccatgcc actgaggccc ttcgtcgtgc 180
 caagttcaag ttccctggcc gccaaaagat cattgagagc aggaagtggg gcttcaccaa 240
 gttcaaccgc aacgactacc tcaagttcaa gagtgagggc aggatcttgc ctgatggagt 300
 caacgctaag ctgctcggat gccatggccg ccttgccaac cgtgcccctg gacaagcttt 360
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<210> 390
 <211> 480
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189009f07b1
 <400> 390

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ggaggccctg tgcggggtgg cgggtgacgcg gtcggacgtg gacatggacg gcatcagggc 180
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 gcacttcaag gacgcgctcg tctcgctcat cgtcggcaag taaaccatat ccggaggggg 300
 ttctttcttcg tcttccagtg gtgatggcgc gccggccgtg cgtgtgtttt tcttctgct 360
 tcatctcgtg tcgtgtgtgc ctttgtatgt tgaattgtg tcgagcggng catgtaaaca 420
 tttgcagctg aggtcgtgta cggctgatcg gngatcaaat aaagttgaac atttgggtct 480

<210> 391
 <211> 472
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009f08b1

<400> 391

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 gcgaccatag ccacgatgac catgctcaag cccgccggcc tggccgcgcg gccggagccg 180
 gcctccgccg ccgtgcagga gtcgccgcg ctggcggcgg tagcgccgcg cgacgacaac 240
 cggggcctgc tgctgctctt cgtgggtggc cccgccctcg gatgggtgct ctacaacatc 300
 ctgcagccgg cgctgaacca gctcaacaaa atgcggtcca actgagcgtc gtcgtcgtcg 360
 tggcatcgca tgcggtccgg ccgagtggtg tcgtatgtgt gtgttcgtct attaagagtc 420
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<210> 392
 <211> 395
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009f10b1

<400> 392

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 ctgtccgccg ccgccgatg ggtgcaggcc aacgtcaagc cctactaccg cgccgccgtg 180

gacgtgcgct acatctccgt cggcaacgag cttgccagcg acaccgcgca gagcatcctg 240
gcgggcgatgc ggaacctcaa cgacgccctt gcggccgagg gcctcggcgg cgccggcgcc 300
ggcatcaagg tgtccacggc ggtgaggctg gacgtgatcg ccaactcctt cccgccctcc 360
gccgctgtgt ttgcgcagcc ctacatgggc gacgt 395

<210> 393
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009f12b1

<400> 393

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gcggcttcgt gccgctgctc ccaattgagg tgatgaagga ccggtgctgc cgggagctgg 180
ccgccatctc gtccaactgc cgctgcgagg ggctgcgctg cttcatcgac cgggcgttcc 240
ctcccagcca aagccaaggc ggtggcccc cgcagccgcc gctggcacct aggtgcccga 300
cggaggtgaa gagggacttc gccagaacgc tcgccctgcc ggggcagtgc aacctgccga 360
ccatccatgg cggccccctac tgcgtcttcc catgaacgct agcttggttca tgaaaacatt 420
gtgtgaatga ataagctagc agcatgtcac a 451

<210> 394
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009g08b1

<400> 394

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cccaccaagg aaaggaggat gtcttgctgc ggcggcaact gcgggtgcgg cgccggctgc 120
aagtgcggca acggctgcgg cgggtgcaag atgttccccg acgtggaggc caccgccggc 180
gccgccgcca tggatcatgcc caccgcctcc cacaagggga gctccggcgg gttcgagacg 240
gccggggaga ccggcggtg cgactgcacc acctgcaagt gcggcaccgc gtgcggctgc 300

tcttgctgca gctgcaactg agccggcgcc caggaggccg gccggcagag gcgagcacga 360
ggatgaggag gacaatgcaa gcagcaccat caccaccagt tcaccaccac ccagcgtatc 420
atcaccagcc gccgcatgcg ctgcggggcg c 451

<210> 395
<211> 202
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009g10b1
<400> 395

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atgcatttcc tcttgttcca ggcaagagcc tttgatgacc atgtatttgc cttctatgag 120
tatctttgtc taactgtcaa cataccttca aactgtatgt ggtgcaatct ttggataaga 180
gaatgctaaa cttttttcga tt 202

<210> 396
<211> 76
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009g11b1
<400> 396

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cagaacgttc ccatgg 76

<210> 397
<211> 249
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009g12b1
<400> 397

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cttagtagca gttctaactg tctcttctat accttgtaga ccataatgaa ataattagga 120
cgctacggaa ctggagttct accactatat gtatctttac tgtctgcgac caagatgtgt 180

gttttctccc gtttgatat ttatttgat cgtgtgatcc acttgcgtag tgatgacatg 240
cttgctcta 249

<210> 398
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009h07b1

<400> 398

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gcgcggcgggc ggggagggag ctggggcggc gcgcggagga cggcgtcggc cacggcaacg 180
gcaagacggc caaggtgatg cacctgctgc tctgggggcc caagtgcgat gagatcgccc 240
aggtttcccg ccggccgggt tcccgcgtgc ccgtgggcgg tggcggaccg gccggactgt 300
aactagttg ctgcatgctc cttcagtttg ccgcgttctt tcttcaccgc ttttgtttgt 360
aatggccagt ttgctgctgt gtatgcgaag tttgtactgt acatagcgaa atatatatgg 420
atgcgatctg tgtcgttaga ccatgtaat 449

<210> 399
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009h08b1

<400> 399

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atggggcggtg cttagtggca ccggaatgct cgggtcccta cccgaatgta atatgtggtg 180
agttatgcgc tcgttatggt tacagcaaaa atggatagtg caaagattca agaaattgtt 240
gttgtagtgg caaaaaatta aaagagtcgg tccaggtgga tcctacaaca aatccatagg 300
agagaaactc tagaagctgc tgcgccacaa tatgtaattg tgagatgaat aaattcgaaa 360
tgaaata 367

CCAGGCGGGTGGGATGGAC AACGTGAGCG ACAACGGGCG CGAGGGCGGG TGGGGCGGGC

<210> 400
 <211> 251
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189009h09b1

 <400> 400

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 tacgtctcaa catggtaact ttctcggtta attaacctgt attgcaaccc ccagtggcgg 120
 taggatttcc atcatgtaaa agtggtgtct gtaatcacga gggacaagga tagaacattt 180
 gctgccactt tgtggcgcggt tctaaagtct tggagcaatc acaagaagca acatattcta 240
 gtctggatat g 251

<210> 401
 <211> 206
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189009h10b1

 <400> 401

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 cgacgcccag tgtcggtcag cagcgagcga cgcagtgccca ctctcgccgg cctgcggtctg 120
 cgtctgctta gctggagcct tgttacggtg tgtgtcacag tgtcagttcc acctatgac 180
 gatcggtatc ctaaccgggtt tgcggt 206

<210> 402
 <211> 78
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189009h11b1

 <400> 402

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 cgaagtgtgg ttggcagt 78

<210> 403

<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009h12b1

<400> 403

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ttaaaaaactg ggactagatc gggagaagaa gatgtggtgc ttgaggtatt tgttcatgtt 120
tctcttggag agatgcatgc atgcatgggg agatctcgcc tgacggggtt ggtgcatata 180
tatggcctat ggggtgttgc gcctggccgg ttgaagctgc agctttgttg tagccatgaa 240
cctgtttttt ttgtttctct ccagaaaatc tgtaccaaga gcctgtgaaa agctatgtgt 300
gtatgagaga ctatgagcta gcaaaaagtt cttcctcctt cccatgccat gtttatccgg 360
ttgttccttg ccttgttggt ttctcctgtg catccaaaat aaccgtggtg ttaattcctg 420
caatacgcag aggaagaacc agccatggtg cttaattct 459

<210> 404
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010a01b1

<400> 404

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cggcggggcc ctccagttat cgatctatct accatctcgt cgtcttcgtc agcaagttat 180
cttcagttcc tgtgtcagtc agtctgagtc gtcgtgtgtg tcgttgagtc ctgtggtgtt 240
tttgatcgcg agctcgagtg tcgctctgtc cggggttaat tagagctggt tacgcgagga 300
agaaacaaca tgtgttatct ttcagtcttg gtcggtcggt cgtcggtgat gcagcaatcc 360
cttctgtcat ggattgggat gtgatgttg aatatcctat gtttgaactc ggtttaaatg 420
gaagaaaatg caagtcgtc 439

<210> 405
<211> 409
<212> DNA

<223> Clone ID: uC-tsfl1189010c01b1

<400> 407

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tttgaagagg caaaacctgt gattgctgct ctaaaggaac aaggagcgtc tagcgttggg 180
gctgcagggtt attgctgggg tgcaaaggta gttgcagagt tagcgaaagc taatgagatc 240
caggcaggcg ttatgttgca cccttcattt gttactgcca atgatataga agaggctaaa 300
tgcccatcg ctatacttgg agctgaaact gacgt 335

<210> 408

<211> 264

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010c02b1

<400> 408

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ttaccacctt ccggccccgt cgtcgagcca ccacatcgac gcggatgagc tggacacttt 120
tacagacacg gagtgggtcc ggggccatca ctctgaggcg ccgtcgctgt accacctcga 180
cgccgacgag ctacacaagg taccaagccc gcaccaccac ggccaccacg ctacagcacc 240
ggtgccggtt caccaccacc acca 264

<210> 409

<211> 198

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010c03b1

<400> 409

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ccctggggcg tcgccatggt cgtcctcctc ctctcgtac tcaccagctt tcaactccacc 120
ttccaggaca tgtggaaggc ttgatggaac gaacggttct ccgatccata cctcgtacgt 180
atgtgagtat gtatgtga 198

<210> 410
 <211> 311
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189010d01b1

 <400> 410

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 gaacctcgtc ccaaaggacc gtgggcaact ggcattctcc caacgagaag gtcgcggcgg 180
 tgggtggcga agaccacgag tgcgagatga gggccggcga gaagcagcgg gatgagtgc 240
 tggcgaggag gacgctcgcg gcgcacaccg actacatcta cacccaagat atcaaatggt 300
 ttgttgcccc c 311

<210> 411
 <211> 160
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189010d02b1

 <400> 411

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 cgctgatgat gtttgaactg tcgatagttg gtaatggtgc atgcttgcta tatttgctat 120
 gccgacctca aatatatcgt ttatggaggt tcctgttaaa 160

<210> 412
 <211> 245
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189010e01b1

 <400> 412

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 caagcttcac ccagatcgcc gtcaggctgc gcgccatggc cgcgtcccag aaggtgcaat 120
 cctagtagcg ccagcagtgg tcttgagaaa acttctgggg ccatccatcc gtcttgga 180

agttcgtctt cgcattattgc gtattttaag aaaatccggt gctgatatat ataaatatta 240
tattt 245

<210> 413
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189010e02b1

<400> 413

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tgtctgttgc cgagatcacc aacagcgcct ttgagccttc ctccatgatg gccaaagtgcg 180
acccccgcca tggcaagtac atggcctgct gcctcatgta ccgtgggtgat gttgtgcccc 240
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ggtgccccac tggettcaag tgtggatatca actaccagcc acctgggtgac gtcccaggcg 360
gtgaccttgc caaggctcag agggctgtgt gcatgatctc caactccacc agtgttgctg 420
aggctctttc ccgcatcgac cacaagtttg acctgatgta c 461

<210> 414
<211> 280
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189010e03b1

<400> 414

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tggtgcagca gctaactcag tggctttaga agcctgtgta caagctcgta acgaagggcg 120
cgatcttgct cgcgaaggta atgaaattat ccgagcagct tgcaaattga gtcctgaact 180
agccgcagct tgtgaagtat ggaaggcgat caaatccag ttcgagccgg tagatactat 240
tgataagtag ataaaactaa agataaagaa gagaaggtat 280

<210> 415
<211> 365
<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189010f01b1

<400> 415

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acgtgcagcc ctccccgtgc acagaattga ctagcacgtc cgggatgagc ttctgtacaa  180
attccctctg atgctgaatc aagtcttgca cttcagtttc ggtgtgtcaa tgccttgat   240
tcctccaatg agatgacatc aaagggtagg ccaaacaatt tttgttttgt ttattacgta  300
ttatatcact ggaatctagt agttcaacaa gtgaaatgtt atccggtggg tcaatgcttg  360
tccac                                           365
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<210> 416

<211> 482

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189010f02b1

<400> 416

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gtctggttcg ccaagttcgg ccgggaggcg gcgccggcgg tagaggcaga ggccgaggtc  180
gtcggacggc gacaccaggg cgacggcctg ctcgaggtgg aggccgtgaa gacggtgcag  240
atccaggaga ggaggaggag gaacagcgcc gtctctcgcca actccgagga cacggtgtgc  300
atgtcatgag accgcttcgc ccgggcctga tgcgccgggt aaccggcggt gtccgtacgt  360
acgtgtaaat tccagggcac gtacgtaggg gcgcgggcac aaggaggagg ccataccttg  420
atgtgcgggt tcctcttgta cataagctct ttttcacgcg taatcgagtg atagtagtag  480
ta                                           482
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<210> 417

<211> 87

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl1189010f03b1

<400> 417

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atcttaatat taatccttta gtctggc 87

<210> 418

<211> 472

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010g01b1

<400> 418

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aaggccgacc tcgccgccta cgcgccgcac ccggcccacg tcgccgccgt gcaggcgcac 180

gtcgccccca acgcgctcga cgccaccgcc gtcgactggg tcaacgccgc gggcgccccg 240

tcccccgctc gccccggcgc cgccgtgcgc ctcaccctcg ccaagggtcaa ggagggcggtg 300

gaggtcgggc agctcgtgga gaagggtggc gccgccacca aggacgccgg cgaggccagc 360

ggctccaagg tcagcttcgg ggagaacttc tccccgcgc gggccaaggg gtaccagttc 420

gggatggtgg ccgtgttcgg cagcgtcgag gagctggacg ccgtggaggg cg 472

<210> 419

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010g02b1

<400> 419

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tgttcctggt gccaaagtgtg cagtcaagac tccaaacagg gagtttgtgc ctctattctt 120

tgaagccatg gagtctctta tcaagtaagt gacggaaact tgaggatcgg tattccatca 180

aagttattca gttatgagca tacactgggtg tgctgttcca tggaagtgtg aattgtattg 240

tgttgttatt gtatcactat tagatcacgc tatttaaact gttagtttct tggtttcaga 300

attttcctct agggatacac aacctggaca ttttgtgccg cataaattgt atatcggcct 360
gaacattttt tcttgccatg tcacagcaca tgaaaatacg tcttgtttct tttt 414

<210> 420
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010h01b1

<400> 420

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tgctggcgggt ggtggtgggg ctgctggttg cgtggccgct tttcctgggt ggcagccgcg 180
aggcgggtcat cgataccatc gccaaagcca tcgccgagct gctcggcccc gtgggcctgc 240
tctctctccc gctggggctc ctctctctca tccacctct ctctcgcgac ggcggctcgc 300
ccgacgccgt gtaccatgtc ggtggatccc ccatcggcgt ggcgctcatg ctggctctca 360
tctctgcctt cctctactac cggtcggcac tcttcggcag cggcggaggc gacgac 416

<210> 421
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010h03b1

<400> 421

cggacgcgtg ggcggacgag tgggttccga tccagcaccg ccgccgcaa caccacacct 60
cgagagccct cttcgccggt gaagtagcaa gcaagatggc tggaaggaag ggaggcgaca 120
ggaagaaggc ggtgaccgac tccgtcaagg ccgggctcca gttccccgct gcccgcatcg 180
ggcgctacct caagaagggc cgctacgagc agcgcgctcg ctccggcgcc cccgtctacc 240
tcgccgccgt cctcgagtac ctgcgccgag aggtcctgga gcttgccggc aacgctgcc 300
aggacaacaa gaagaccgac atcatccgac gccacctt 338

<210> 422
<211> 370
<212> DNA

aagaatagat tggatctatc cggctgcact ttataatatt ttttagtatt tttcggataa 60
 ataagaaaag ggtgcacgat ctcgacgaat tactttctgaa taaattcaga aatcatatgg 120
 aaagaaccat agcatttcgc gactcattgg taaatcaact ttgattctct ataaaccaag 180
 aatgtgagac cattaacacg gttaaagcta aactgcttga agtccaggca aaaagaggta 240
 ctctttctac aactatatta gtattagtac cgaatttaaa cgggaaatag ctaatgtaaa 300
 atttatctga tatagaacac tcatatcgat aaaatggttt gaactattta ctagaaaaaa 360
 aaagggggca ccctgccctt ttttaaccaa tgccgaatcg acgacctatg tataaaaaag 420
 agaaattctt tggatttgaa gaaaaaaaaa aaagaattct attaattntc attttccatt 480
 ta 482

<210> 425
 <211> 177
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011a06b1
 <400> 425

gtccttgccc tgcaccgcct agttgttttt atcttagtgt cgacgttgga tggttttggc 60
 acgttttagc tgtatcggtt ttgtcttttg gctggccaaa cattaagcgc ggtagctgt 120
 ttgtggtact cgtggaacag ttcgttattg ttggttctac aatatgtgtt agttatt 177

<210> 426
 <211> 114
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011a09b1
 <400> 426

cccacgcgtc cggatttatt atgttatgct gtttgagact aagtatctgt gcaatgagta 60
 ctgcaaaacc tccttgggat ggtcttggtta gaatgaaaat ggttctacat taaa 114

<210> 427
 <211> 311
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011a10b1

<400> 427

tcttgaggag cttaggggaac ttggttctgg tacttttgga actgtttacc atgggaaatg 60
gagaggaact gatgtggcta tcaagcgcac caagaaaagc tgttttacag gacgatcatc 120
tgagcaagaa aggctggcac aagaattctg gcgagaagct gagattctgt caaagcttca 180
tcatccaaac gtcgtagcct tctatggcgt ggtgaaggac gggccgggcg gtaccctggc 240
gactctgacc gagttcatgg ttaatggttc tcttcggcat gtcttgagc ggaaggacaa 300
gtgtcctgat c 311

<210> 428

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011a11b1

<400> 428

ctcccccttc gctctctcca ccaaccaaga acagcaggaa ctgcacctcg gagcagcaac 60
gaatccgccg ccgcccggca aaagggatcc aaagctccaa tggctggcaa gtacatcgtc 120
gccggcctcg tcggctcctg tgatcatctg tatgcctgtg actacatcgt ttctcagaag 180
aagatcttcg gtggcaccat cccagggact gtgtccgaca aggagtgggt gaaggcgacg 240
gagcagaggt tccaggcctg gccccgggtc gctgggcccgc cggatcatcat gaaccccatc 300
agccgccaga acttcatcgt caaggacctc aaccctgag gctcaagatc ttaaggtttg 360
cggtcggttg gaacctttac cctgat 386

<210> 429

<211> 241

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011a12b1

<400> 429

ctcagcgagg cgcgcgaccg ccccgttgca gatcatatgg cggctgaagc ggttcttcaa 60
cgtcggggac gagagaaagc tccgggaatc cgtgcgcctc gtcgacgggt tcgccgcgga 120

atatgttggt t

431

<210> 432
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011b08b1

<400> 432

ggggtcgacc acgtcgaggg gacgggtcaag gccgtcgtcg gccccgtgta cgaccgctac 60
cacgccgtgc cgctcgacct cctcaagttc ctcgaccgca aggtcgacga gtctgtccag 120
gagctggatc gtcgtgtccc gccggtcgtg aaagaggtgc cgacctatgc tcgctctgca 180
gcagctgagg tgcagaagac aggcataatg ggcacagcaa ctggcctggc caagtcggcc 240
attgctcgtg ctgagccaaa ggcccgtgac ttgtataccc gctatgagcc tgtggcggag 300
cgcaaggctg ctgaagcctg ggc 323

<210> 433
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011b09b1

<400> 433

tggactggat actccaaatc caccgccaaa cacagagctc gtgatgatgt acggcggatg 60
ttccagaaat ttttgttttt gtgtaaactg ctgcagatta ggctgctgtg ccagtccccg 120
ggtcgccctc ataaccattg gaacaaaaaa tggcgagcca gccgtgttct acaaatgcca 180
tcctgttagc agcagcagcg ctctcgctgt cggcgagcaa tacaaacttt attgttaata 240
tttcgttctt gtgattatct ttcgtgacga gaaaaggata cacagctgtt gtaccagaat 300
aagtaggcag cacctttggg aaattgtaca agcgtttgga gtcttttgga ggggtttgta 360
cgcatattgta tcgtcgacaa ttttagttg caaagattgt gtaaactctt gtttgactgt 420
tggtactgat ctgtctgcaa taggaagcac ctttttactc 460

<210> 434
<211> 69

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011b10b1
 <400> 434
 ctttccaaat gatccattcc attaccatat agtattttat aatttaagga aactgagtcc 60
 aagcatcca 69

<210> 435
 <211> 244
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011b11b1
 <400> 435
 cgaaacgggt catcaatgac accatcagaa gtgatttcca cgcgaagttt ctgcataggt 60
 acatgaaatg atgctgctgt atgctttatg ttgtctggac agtatgcatg ctgaaagagc 120
 ctgtgatgtt tctgtattct gaagatcgat ttgtatgaca taactgtaac agctacgtta 180
 tcttaatggt gatatgttta ccctgttcct aagagtaaag aaaagaaccc actgcttgtg 240
 tatt 244

<210> 436
 <211> 370
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011c01b1
 <400> 436
 tcggtggttag gacattacca ccaagatcca ccacaaggtc tccgagaact ggatctccgc 60
 cagctcctc atcaccccg tcgtcggcac ctaccagtat gcgatgtggt acaaggagcc 120
 ggagaaagct gtccacaga tactaaagggt ggagctttct ccaatatcgc agcagttgga 180
 atttccatgt tctataatcc accaagagtg atttaacatt ttcggaatca cttctagttg 240
 tactcttttg ctctttccgt tgcatatgca atgatgcagt aagtgtgact tgcaaacct 300
 ttttgaggcc tcaaatgttg agttgctcat cactggagtg attttgtgca ataaagcaaa 360
 ttaaccagtc 370

<210> 437
 <211> 282
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189011c04b1

 <400> 437

 tcgagattaa ccgctcgtta tcgtttcccc cgtgaaacca cccgaccccc ttggccgtct 60
 ccccgccggt cgccggaggc atccaatcca agcgccgccc gcgcgcccct gctccgacct 120
 gatggcggtg ggcgcgcccc cgcgggcgca gtcgttgctg gtgcaggccc tctacgacct 180
 ctgcaggcgc acctttctct tccccttctc cgccgacctt cccccggcca gcgcggtccg 240
 cgccatatcc tccctcatgg ataactatcag ccccgcggaac gt 282

<210> 438
 <211> 352
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189011c06b1

 <400> 438

 gccgggaaga agatgaacgt ccatttcatg gccaccccg gcgcggcgga gaagttcctg 60
 ccgcgggagc aggccgacgc catcccgttc tctcggaga agggccccga gatcctcagc 120
 cgcttctccg tggcgccgga ctccgcccag gccgcggaga tgaagcagac gctgcgcgag 180
 tgcgaggcga cggcgggcaa gggggagaag aagtcgtgct ccacgtcgct ggagtccatg 240
 gtggacttcg ccacgtccag cctcgggacc agccacgtga gggccgcctc cacggtggtc 300
 ggaaaggagg ggtcgccgga gcaggagtac accatggccg gcgtgaggcg cg 352

<210> 439
 <211> 217
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189011c07b1

 <400> 439

 ggagttagct gcactgtaat gctgaagcat gcgctgtaat tttttgtgag acggtggcct 60

<210> 443
 <211> 300
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189011c12b1

 <400> 443

 gggagaggcg gttgcagacg gacatcaaca tggcgcgccg cgcgctgcgc gaggcgctca 60
 ccacgctcga cgacatcaag ccgcagcagc ccgacgtggc cgacggcgctc aatggggctg 120
 ccgcagccgg cgccgacagc ggcagcccgg cggcctcgag ctcgtcggcc gcgttgctgt 180
 cccagtgtct gccctccgcg gtcggggcgt acgtgtcac caccggaac atctcgggga 240
 tgctcgacgg gtggggccagc aagggccgca gcgccggcgc cgcggcggac agcccctccg 300

<210> 444
 <211> 77
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189011d04b1

 <400> 444

 gtcacccagt gttagtggag tggaatgata ctttttacta ggtgtggagt gggagtgtca 60
 tgcgcggtgt cgcgtga 77

<210> 445
 <211> 468
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189011d06b1

 <400> 445

 ccaccaccgc cgtccccacc ttctccgacg aaaccctagc gatggcgctc cgcggcgcag 60
 cctcccgtct cttcctcgcc gccgtccgcg gtcgcaccgc ctccactgcc ccgcgcggac 120
 gcgcggtccc cattcccgcg gcccctcccc gtcgcatecc tgcctcagcg ccctcctccc 180
 ctctcgccgc cgcaaggcca ttggcggcgt tgatggggtc gccggtgttg gttgccgcaa 240
 ggctgacggg gcactgcgcg gcgagcgcg gggcgtgctg tgagctctcc cagggtactt 300

aaaggacgag ttgctgccct tcgcaaggat acaacagttc ttttgggtgc atctcttttg 360
aagctcttct gagttcagtt cgttttctctg gattctgcaa agttacaaga aactccccac 420
tcccagtgc agcttttgtc tcctagacaa acggacattc tacttgat 468

<210> 446
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011d09b1

<400> 446

tcgcccacgc gtccttcac gcgtccgcc acgcgtccgg ggagctccgg cgggttcgtg 60
acggacgggg agacc 75

<210> 447
<211> 91
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011d10b1

<400> 447

tgattatccc ttttctgacg acctccccca tgagatccag cagcctgcgt ggcgcagaga 60
atcggttctt ttttcaggtt ggacacgacc g 91

<210> 448
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011d12b1

<400> 448

cttattttga gcacttgcc atggcggttca acggcgccca gatgctcgt gccttcaccc 60
tgggcattct cctcatggcc ttctgtgcgg aggctcgggt atgcatgtcc cctagcaagt 120
ggtacaaagg ggacccttgc aagaacctgc gttgcaccaa ggcttgtcac aaagaacact 180
tcaaggggtg gttttgtcc agtaaaaagt cgatcggtga tgacgagctc aatgaagaca 240
atggcgacaa cagctttggc aaacggccta agaaaaaattc gaaaaaattg tgcattgtga 300

cattcccatg cgggtcaaacc ccaccaccac c

331

<210> 449
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011e02b1

<400> 449

gctgtacgca cgccatggcc gccaccgct ccctgtctgc cgtcgaggcg cccctgtccg 60
tcgccgggct caagaaggcc acgtcggtcc ggcccctgcc ggtggtcagg gcccgaggc 120
ccgcggcgag gatgacggtc gtccgggct ccttcgcgtc cgtgcaggag aagctcacgg 180
ccgggctgac cgcggcgcc gtggcgagg cgctggtgct gcccgaggtc gcgaggccg 240
cgtccccggg gctgtccccg tcgctcaaga acttcctgct cagcatcgtg tccggcgagg 300
tcgtcttcgc cggcatcgcc ggggcagtcg tcgccgtctt caacttcgac cccgtcaaga 360
ggacctgatc gcctcgccgg attctca 387

<210> 450
<211> 87
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011e03b1

<400> 450

tcgcccacgc gtgcgccac gcgtccgcc acgcgtccgc ccacgcgtcc gccacgcgt 60
tcgcccacgc gtccgccac gcgtccg 87

<210> 451
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011e04b1

<400> 451

tcggagaact tcagcgacac ggtcaccgcc gtcgtcgtgc cgccgtacat cgacagctcc 60
gagatcgtga agcacgcgtg gaagcggtag aacctcagcc tcgggctcgg gctgaacaaa 120

ggtcgccccg caaggtcttc aggatcggcc acctcggcc cctcaacgag ctgcaacttc 180
 tgggctgcct cggcggggtg gagatgggtg tcaaggacat cgggtacctg gtgaagctcg 240
 gcagcggcgt 250

<210> 452
 <211> 346
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011e05b1
 <400> 452

tcgcgacgac acggcgggagc tcaaggacgt gctggggcagc gggtagcttg agcgcgtgca 60
 ggggcgcggg ctggtgacca aggagtgggt ggaccaggag gcggctctgc ggcacccggc 120
 cgtggggctg tacctgagcc actgcgggtg gaactcgggt acggagtcgg cggcgtacgg 180
 cgtgccgatg ctggcgtggc cgacgctggg cgaccagcgg ctgatcgcca aggtgataaa 240
 gagcggcggg ttcgggctgt ggggtggagca ctggagctgg gacggcgggg agggctcgtc 300
 ggtccgcggc gcggagattg cggagaaggt gaaggaggtg atgggc 346

<210> 453
 <211> 159
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011e06b1
 <400> 453

tcgcgcgaag gtaatgaaat tatccgagca gcttgcaaat ggagtcctga actagccgca 60
 gcttgatgaag tatggaaggc gatcaaattc gagttcgagc cggtagatac tattgataag 120
 tagattaaac taatgataaa gaagagaagg tgtttcttt 159

<210> 454
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011e09b1
 <400> 454

cggacgcgtg ggcggacgcg tgggtgaaga tcaccttga tatcagaaaa cagcctggaa 60
 agccgcaaga gactaccatc catgccactt ttacaaattt gacatctagc aattatacag 120
 atttcatttt caggcagctg ttccaaagt cattcaattg cgactggatc cagctagcgg 180
 taacattggt ccagccaatg gaaagggttc agtcacacaa ggtttcagtgc tcacgaataa 240
 tcagcatggg cagaaaccgc ttgcaatgcg tatccggatg tcttaciaag tgaacggcga 300
 ggacaggttg gaacaaggcc aagtcagcaa ttttccacct ggagtatagt gccatttgtg 360
 tgtaacctat gttt 374

<210> 455
 <211> 276
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011e11b1

<400> 455

gcgatacatc catatctatc gccgccaaga atcgccgaga aatccaggag agccagtagc 60
 tagcaatggc gtctgtgggg ttccggcagca gcgtggcgcc cgtggcgccg gcgtcgtcta 120
 cggcgggggag gacgagcctt cgcccgacgc ggacgctgct ggcggtgccg gcggcgacga 180
 ggggcacgcc ggctccggcc aagaaggaga agagcatcct ggacttcacg gtcagcgcca 240
 tcgtcaagga cgagcaggag ttcacgcaga ccaacc 276

<210> 456
 <211> 345
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011e12b1

<400> 456

gcggcctcct cctagcaagc tatataccta catagcacag ccatggcccc caccgtgatg 60
 gcctcgtcgg ccacctccgt cgctcctttc cagggggtca agtccaccgc cggcctcccc 120
 gtcagccgcc gctccaacgg cgctagcctc ggcagcgta gcaacgggtg aaggatcagg 180
 tgcacgcagg tgtggcccat cgagggcatc aagaagttcg agaccctgtc ctacctgcca 240
 ccgctcagca cggaggccct cctcaagcag gtggactacc tgatccgctc caaatgggtg 300

ccttgccctcg agttcagcaa ggttgggttc atcttccgtg agcac

345

<210> 457
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f01b1

<400> 457

tcgcggactc atgggaggac gcgtgggagg acgcatgggc tggcgggtggc ctgggtgggtg 60
tcccaaagt tccaactgtg ccaccggaag agcgctacgc gacgcagcta gctcagcttc 120
cagaaatggg tttctttgac ccacaggaga acatccgggc gctgctggct accaatggga 180
atgtccatgc cgcgggtggag cggcttcttg ggaactttgg gcaatagtag actatatatg 240
cagggccagt cacctgtagt agttggcatt gtgaggcttg attggctgta taccctaccc 300
gggtcccggtg agattgaaag gcagcgtctc tagattctat gtgttttaag atggatgaat 360
aaaccagtct ctctgctggc taccctttgc agcttgcatt gataca 406

<210> 458
<211> 83
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f02b1

<400> 458

aaattaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaggg gcg 83

<210> 459
<211> 109
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f04b1

<400> 459

tcggcgactt acatttatga acggagggag tattaaatat ggagctgcca accccatcaa 60
gcagaagatt tgcttttttg gggctggcac ctacaacaag cataaaaaat 109

<210> 460
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f05b1

<400> 460

gccaggtggt ataccggtag cttcaggtgg tattcatggt tggcatatgc cagctctgac 60
 cgaaatcttt ggggacgatt ctgtattaca atttggtgga ggaacttttag gacatccttg 120
 gggaaatgca cctggtgcag cagctaatacg agtggccttta gaagcctgtg tacaagctcg 180
 taacgaaggg cgcgatcttg ctgcggaagg taatgaaatt atccgagcag cttgcaaagt 240
 gagtcctgaa ctagccgcag cttgtgaagt atggaaggcg atcaaattcg agttcgagcc 300
 ggtagatact attgataagt agataaaaact aaagataaag aagagaaggt at 352

<210> 461
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f06b1

<400> 461

tcgctggaaa tcaaggaaac cgatgcagaa atctggaaaa gatcattctc ttctgttgat 60
 ccttccttct ggagtttatc gttatagatt tgttgtagat ggagagagga gatgttttcc 120
 tgaccttcca tgtgaaactg atgccatggg caatgctggt aacctacttg atgttcatga 180
 ttttgttcct gaaagtgttg aaagtgtatc agaatttgag gctcctccat cccagaatc 240
 tagctacagt ttccagtcac ccgaggaaaa ggactttgcg aaggagccac ctgctcttcc 300
 gtctcagctt cacctcggcg ttcttaactt acagaactcg gaggaaatat gtgcacggcc 360
 ccaacacatt cgtctcaacc acctttt 387

<210> 462
 <211> 282
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f07b1

<400> 462

cggacgcgtg ggccccacgcg ttcggtcacc gtccggccca aactgaaat ttcacaccg 60
ggttcagtga gtgacgagg tcgttgcttt ggtcttctgc cattcgctgc cccgttttag 120
tttctgcact gcagagctga gagttcagaa taaactttgt gaggaacaca tgcattggatt 180
agtgtgcttc gattgctttt ttatgattgt aatttcggtg tgtgctttgt ataagaagtt 240
attgtggatc aagtaattta atcaagtcca tttgtgtag tg 282

<210> 463

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f08b1

<400> 463

accacaccct gcaatggcgt ccgcgctcac caacgtgagc ctgtctacct tcgcgcccac 60
ggccagggggc gacgtcctgg cgaggccgca ggtggccccc gcccgctca ccttcccgac 120
ggcgtaccgc ggcagcggcg ccctctcctg cagggcgggc gggccggcca cgccgcccggg 180
catctccgac aagatgtcgg acagcatcaa ggaggcccag gagacgtgct cggaggacgc 240
cgccagcggg gagtgcgccg cggcgtggga cgaggtggag gagctcagcg ccgcggccag 300
ccacgcccgg gacaagctca aggactcgga cccgctcgag aactactgca aggagaacct 360
cgagaccgac gagtgccgca cctacgacag ctgagcgtac gtgctaattt gttctgga 418

<210> 464

<211> 324

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f09b1

<400> 464

tcggtgaata cagatgtgga ttcggtggct tcagacttca tcaagcgtaa gcacatgtct 60
tgggcactcc agaagagcac aactatgtat ccatcttctt aagagaacca aggttcctta 120
gtcatggat tatctgttca tgcttcgtcc agcatgaaag ttcaaataag aggtgctgct 180
tggagggtgct ctagatatcc tgaggttatg ctactatggt gttcttattt gtaacatgaa 240

<210> 467
 <211> 299
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011g01b1

<400> 467

tcgggggtcg tcgtcatgc agctgccggc agggaaactgc cgtgtcgacc cccgggtcgca 60
 cccgccgggc ggcattggact gctcggcgca cgccgtggag ttcgattcaa cactggcgcg 120
 gtccgggtctt ttaagatctt aaccgattcg tgggtgctcgt cgggagcggt cgacgtggac 180
 ggtatgctgg tgcaaacggg cggctacttc gaaggggtga aggttgtag acgcctgaac 240
 ccacaaggaa atgccgactg ggtcgagttt cccaatacct tggccgaagg aagatggta 299

<210> 468
 <211> 218
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011g02b1

<400> 468

gagggttccg ttactaacat gtttacttcc attgtaggta acgtatttgg tttcaaagcc 60
 ctacgtgctc tacgtttgga ggatctacga attcccccta cttattcaaa aactttccaa 120
 ggcccgcctc atggtatcca agttgaaaga gataagttga acaagtatgg tcgtccttta 180
 ttgggatgta ctattaaacc aaaattggga ttatccgc 218

<210> 469
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011g07b1

<400> 469

cccacgcgtc cgcattacca ctctccccc aatccaactc gcgcagcagc tccaagagga 60
 tcgtcagcga ccatgtccgg gcgcggcaag ggccggcaagg ggctcggcaa gggcgccgcc 120
 aagcgccacc ggaaggtgct gcgcgacaac atccagggca tcaccaagcc ggccatccgg 180
 aggctcgtc ggagggcgcg cgtgaagcgc atctcggggc tcattctacga ggagaccgc 240

ggcgtgctca agatcttcct cgagaacgtc atccgcgacg ccgtcaccta caccgagcac 300
 gcccgccgca agaccgtcac cgccatggac gtcgtctacg ccctcaagcg ccagggccgc 360
 accctcta 368

<210> 470
 <211> 350
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011g08b1
 <400> 470

cccacgcgtc cgggctgggg aagagcggag tggaggaagt gatggggctg ggcgagctgt 60
 cggccttga gaaggagggg ctggagagcc tcaaggcgga gctgctgtct tccatcgaga 120
 aggggtgcaa gttcgcgcag gagagctagg tgtcaagttc gaacggttca cacttgaact 180
 catgcaatth ttgttcggcc gcttttttgt tgctccaaa cccggttggt ctgccccgca 240
 tcgtggcgtc gtcgtgctcc acaataaaat gtactggctt tgatgtcgcc agactgaact 300
 gaacctgtag tatcagaaaa tgcagacacc ggtgcctatg tgtttacagc 350

<210> 471
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011g10b1
 <400> 471

cggacgcgtg ggcggacgcg tgggggcggg actaccgct gagtttaagc atataaataa 60
 gcggaggaga agaaacttac aaggaaacca tttccaaat tattctctag gacctcttca 120
 ttattggggc taccaatagg cctgaccttc ttgattctgc acttctccgc cctggccgat 180
 ttgataagct tctctacatt ggtgtaaata ctgaagcatc atacagggaagg gataactga 240
 aagcacagac tcgcaagtac aaactacacg agaatgtatc tctcttgctg attgctcagc 300
 actgtcctcc aaacttcact ggtgccgata tttatgcatt atgcgcggat gcatggtttc 360
 atgctgctaa gcgttccgtc aaaacgcttg aagctgatcc t 401

<210> 472
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189011g11b1

 <400> 472

 aagcgcccca tgtttactac tgcctcaagc ttctggaagc cactggaatt tccactgttc 60
 caggctcagg ttttggtcag aaagaagggg tgttccatct gaggacgacg atcctgccc 120
 cggaggagga catgccggcg atcatgtcga gcttcaagaa gttcaacgac tcgttcatgg 180
 agcaatacca ggaccactcg aggctgtgaa gagagaagaa gacaaccgca tctacatata 240
 atacaatgct gctcttttct accagcaatt aaagttgatt aattagctgt aagctgtaac 300
 tatgggtgaag aaaactgggt gctatgcttg atatgtatag gggggaagat atatgcggaa 360
 atattcggtc catttactac ataatatgat gataact 396

<210> 473
 <211> 209
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189011h01b1

 <400> 473

 ggagatgtca agtgtcctca ggaagatgag gtctgggtggg ggtgggtgccg cggacaagaa 60
 gaaatagatt ttgcatgttg gtgaaattct atttatctca acgctttgcc ccgtattttc 120
 atattatgcc aagtttgtag cctgtggcaa ttggatacga atgtagcaca ttgcatttca 180
 agttcagagt aaaactatga atttttgac 209

<210> 474
 <211> 361
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189011h02b1

 <400> 474

 ctacgtactc tttcccactt agctagctag cagccatggc cgcctctcc tctgcagccg 60
 tgtccgtccc ttccttcgcc gccggcgcca aggtggccgc tccccggagc agcaggaagg 120

tgggtgcgcgc gtccctgggc aagaaggccg ccagcgcggc cgtggccatg gccgcgagcg 180
 cgatgctgct gggcgggtcg gcgatggcgc aggacgtgct cctgggcgcc aacggcggcg 240
 tgctggtggt cgagcccaac gacttcagcg tcaaggacgg cgagaccatc accttcaaga 300
 acaacgccgg gtaccgcgac aacgtggtgt tcgacgagga cacggtgccc tccggcgctcg 360
 a 361

<210> 475
 <211> 309
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011h04b1
 <400> 475

tcgggtctat gtcacccctg caaatgatgc caatgttgat tgatactgtt aatgcttttg 60
 tgttggtgat agtgctttca tttgttggtg gttagtgaat cgttggtgag ggcagtagtg 120
 atgttggtgt agttagtga tttgtctgtga agttttctgc ttttcttaca aggataactg 180
 attccttggt aattagttga ctactactta actcgcataa tgaggaatga tgcatacttt 240
 tgatgcaaga ctgaataaat aatgtaattg tgttgtgtcg aatttatgtt cattggattt 300
 tggactcct 309

<210> 476
 <211> 304
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011h06b1
 <400> 476

tcggattata tggacacatc tgctggaatt gaggaggagt atcaccacaa aaataatcgt 60
 gtttattgct ggaaagggtt acggtttcaa gccagacaag atctggaagg attttcttga 120
 ttttgtgact acgggatcga aggtgttgta cctcccgagc tgttgccacc cgacgtccgc 180
 gccaaattca attctaagcc aggcgagaag gccaaacggt ctaaacggga agacacaaga 240
 ggcacttcag ctcaccccaa ggagccacag gttgccgcgg ccacgccga gacagacggc 300
 ggcg 304

<210> 477
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011h07b1

<400> 477

aggatgaagag catagtgaag cctgggtgct cgcaggatgt tctcaaggcg gcgctgagtg 60
 ccatgtcttc cgtgacggag aactgggcta tcatgacttc ctctccact ggccagcccc 120
 cactctgagg gccaagcacc acttcagtgg gttacgaatc tactacgcgt tttctgattc 180
 tcttttgctc catctgactg ttgggattcg agacagtgat cttgtcatcc catgggttat 240
 tcttttcta gctttttgga gagttttatt atcatttttg gctctgatag cgtatgcggg 300
 tgtgctgttg gcgagattca gcttgaataa ttttgatcaa actgtcggct gtgatctatt 360
 aataatctaa attttgagag ggtccatctc tagcgctctc tttgattcat agga 414

<210> 478
 <211> 326
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011h08b1

<400> 478

cccacgcgtc cgtttttttt tttttaaaca tataacgaag acttttatatc aaaatccaac 60
 gcacagccac atgatagatt cacattaata aaggttccca aacgtcacca tcgaacatct 120
 tacgaatgat aaaggagcat atttcaggta gcatatccta acaggactgg tgatattaaa 180
 aaactaggat agcaagagca gtatggcaac cggcagatcc accgagctta atcgatctcc 240
 tggagcgagg cgccggtggc cgtggcaccc ccagcggcgg cggtgacgtc ctcggccgtg 300
 aacttgccct tggccttgct agcagc 326

<210> 479
 <211> 202
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011h11b1

<400> 479

gccgaggctt ttttttggag gacagatggt gatgagtgtt cagtcaagcc tgcgccgtat 60

gctaagcctg tggttactga attaagctag agatttccgt ccattttctt gttccgaggg 120

tggatctgga tctcattacc cgtatgctat tacttttgtt ttgacggttt gacctgagta 180

cttggttata ttacagtttt gg 202

<210> 480

<211> 279

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012a01b1

<400> 480

gcgcccacgc gtgcgcgcta gccaagcaag acccgagcaa gccacactct ccagcaccag 60

cagaggccgg cggcaaagca gcgcagcaca gcaacaaatg gccaccatca gcgccgccgc 120

ggcgaccacc gtcggcgccc gtgccgcgat cgccaggcca caggccctag gtctgcccc 180

gctgaggacg aggagcgaga ggggtgaggtg cagctactcc aaggacgcca aggaggcgac 240

ccctgccgcc accgtgcgcg gggccagcgc gtccttgc 279

<210> 481

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012a02b1

<400> 481

agcgtgataa aatactgatt ctttttctag aagattaata aacaaatttc tcaggttgtc 60

ctaatttttc aaaaaaattg gagttgcaga agtattcgag agttacagat tactacagac 120

tgttttgttt ttgacagatt ctgttttcga tgcatagttt gtttgtctta tagtttatat 180

ggcttatatt gcttaatata aattgtagaa ttgatagggc acagtaggca tcatgtgcga 240

aaaattatga atcttatctt gacagtacct aagtggatgat ttgctttatt atactaacgg 300

agcttacgag ttttctgtta agtttttgtt tgtgaagttt caagttttgg gtaaagtttt 360

gatggacta 369

<210> 482
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012a03b1

<400> 482

cgcacgctcg ctgactacaa catccagaag gagtccaccc tccacctggt tctcaggctt 60
 cgtgggtggca tgcagatctt cgtcaagacc ctcaactggca agaccatcac cctggagggtt 120
 gagtcctcag acaccattga caatgtgaag gccaaagatcc aggacaagga gggcattccc 180
 ccggaccagc agcgtctcat ctttgctggc aagcagcttg aggatggccg cacccttgcg 240
 gattacaaca tccagaagga gtccaccctg caccttggtcc tccgccttcg tggaggcatg 300
 caaatctttg tcaagaccct cactggcaag actatcacct tggagggtgga gtcacttgac 360
 accatcgaca acgtgaaggc caagatccag gacaaggagg gcatcccccc ggac 414

<210> 483
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012a04b1

<400> 483

gctacgcaaa tacctgagggc atgagcagag gaagagcctg agaagattca tctcattcgt 60
 ccatggcaag gatccaccaa agaacgacga gaggcgggtcc atgagcctgc ttggaagctc 120
 gacgccggca acgccgatga gcagccttac tacccttgag atagaaaggc cggccatgga 180
 agtcagaaac accagcgtta ttgaaatgga aagctagtcc atgtgtacaa agctagtctg 240
 tgcttttatct cccaaagcag cggggcaact gttttgtgtg aagcaacaat gcggccgact 300
 aacctaggtc ccggtaacct aggttggaag gccaaacacc agggatgtat agaggggggtt 360
 caaatacttc ttaaaggaag gggttgataat 390

<210> 484
 <211> 75
 <212> DNA
 <213> Triticum aestivum

<210> 487
 <211> 411
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189012a09b1

 <400> 487

 caacaacaac aacaaccgtt gagccaggtc tccttccaac agcctcaaca acaatatcca 60
 tcaggccagg gtccttcca gccatctcag caaaaccac aggcccagg ctctgtccag 120
 cctcaacaac tgccccagtt tgaggaaata aggaacctag cgctagagac gctacctgca 180
 atgtgcaatg tctatatccc tccatattgc accattgctc cagttggctt cttcggtact 240
 aactgagaag agaagaactc tagtagtaga catatgatac accgttttct tagtccatgg 300
 tttggtcggt gtagcggtag aaaaataaag tgacatgcag tatcatgtaa gaaccggaac 360
 tatactagtt caaacatggg aataaaagac aaacacatgt cttgtctaca t 411

<210> 488
 <211> 274
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189012a10b1

 <400> 488

 attgggtagt tcgtcttctt ttgccatctg aggatctgct agactctgat gctgccttca 60
 tcataccgca tcattcggtt cgttccacaa ttttgagagc tcagttcggt aatagcttag 120
 caagggtttg ttcgcaaatt ttgttcttgc cagatacggg ttatatcctt tttatgtctt 180
 gtcttaatac acctgcatcg ttcagggtgc cctagtagag atgatcagag gacgacttgt 240
 gtccatctca ttcattacga atatttgccc ttcc 274

<210> 489
 <211> 79
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189012a11b1

 <400> 489

ctgggattgg ctttgggcct ttctgcgca gcttaggtgg aaggcgaaga aggccccctt 60
ccggggggggc ccgagccat 79

<210> 490
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012a12b1

<400> 490

cggtttgatc aaggcacgag gaagaatatt caaatgatca tgggccc aaa tgttttctgc 60
tggctttgcc ccaccgcgac aggacatctt aaggatggca ccgagttcca gaatacgaac 120
aactgatcag agacgaagaa cagcattgct gcataaacac aacatgtaga cgtgggaatt 180
tatctgctga ccagattgat cttttctgcc attgcgttgt tgtcaccag gcagaggtga 240
agagctcggg cagtttcaca atcttgtaaa tcatgtaaac ctcacctgaa attatatgtg 300
tgtgtatgct gtaaagtagt ttgggttttg agtactgttg tgtactgact gagtcattca 360
attgcaa atg taaccagaat atgtttgtca ccatttgagg tgtgaaaaag ggaatggaaa 420
ttggatatat g 431

<210> 491
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012b02b1

<400> 491

tccatggcga atgttcacag acagctgtag gaggatgagg atcatgaagg ggtcagatgc 60
agtgggcctc gctccgaggg ccgccgagaa gagtaagaac cagaagtagc aagaacgatg 120
aacccgatct gtttcctttc ctgcgatcgc atcttacaag ggtgatggac tttatgtgtg 180
atgagaaagg gatttactta tatatataac ctacgtgtat tctctttgtt atttccttgt 240
atgttcgttc ggaacaagca tgtagattg tgtaagctga tgtgtgtgta tctactacta 300
ctgcactact ttgatttgat tcgcgtgtgt tgtatgcggg ttccgttgta aattgggtgtg 360
ctctgtctgt accgcaaact cttttctttc 390

<210> 492
 <211> 238
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b04b1

<400> 492

tcggttcaag ggtgcataca accagttgag gaagcacgct agggaggatc atcctgctgt 60
 ccgaccaatg gaggtggacc ccaatcgaca gcgagactgg cataggatgg agcagcagcg 120
 tgatcttggg gatttgttca gcatgctgcg ttcggggatc agtggcagag aagatggggt 180
 tggagtcaga gaaagtgacc agggcgtgag tgagagatcc ttgcacgcca cgtccata 238

<210> 493
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b05b1

<400> 493

gagctaccga ggtgccgatg tcttcctgct cgccttttct cttatcagca aagcaagcta 60
 cgagaatgtc actaagaagg caaccatct cctttgatcc tctctgtttc cttgctccca 120
 ctctcgttga cttgtttag tttcataaat tgtttgttat cttgcttatg agatatgaca 180
 tgtgcttgta attttccagt ggatccctga gctacggcac tatgctcctg gtgtgccccat 240
 aattcttgtc gggacaaagc ttgatctgcg ggatgaccag cagtttttcg tggatcacc 300
 tggggctgtt cctatttcca ccgctcaggg tgaagagctg aagaaggtaa ttggcgcgac 360
 ggccacatc gagtgcagct caaaaacaca gcagaaca 398

<210> 494
 <211> 78
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b08b1

<400> 494

cccacgcgtc cgtccacgcg tccgctttgt acaatgaaag cataattggc catcggcttc 60

agttgtagtt tgtcgatc

78

<210> 495
<211> 156
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b09b1

<400> 495

tgcgggcaga aggggaactg cgtgggacgac gtcgtcggcg gcgtcgccc agggacgggg 60
cagggcgcca cgcactgcgg gcccggtcac aggcacaccg tgccgttgcc gccgtccgcc 120
agcgcgccgg cggccgacag gaacagccac agccac 156

<210> 496
<211> 74
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b10b1

<400> 496

ggcaatgtaa cttccctgtt gataatatgt caacaagcac taagtatgat tctatattga 60
gtctttcaca ggtg 74

<210> 497
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b11b1

<400> 497

ggagacctga tgcggttatg agtacgaccg ggcgtgaacg gtactcggtc ctccggattt 60
tcatgggccg cggggggcgc accggacacc gcgcgacgtg cgggtgctctt cgggccactg 120
gacctacct cgggtgaac cgtttccagg gttggcaggc cgtaagcag aaaagataac 180
tcttcccgag gcccccgccg gcggtctccg acttccctaac gtcgccgtca accgccacat 240
cccggtcggg gaaatcttaa cccgattccc ttccggggga tgcgcgtgat cgcgctatct 300
gccgggggta ccccgctcct taggatcggc ttacccatgt gcaagtgccg ttcacatgga 360

accttttc

367

<210> 498
<211> 267
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b12b1

<400> 498

gccacccgac cggccggcga cgatgccgat gtcaccccc gacgacgttc gcgccaaggc 60
ggagatctac accggcgacg cggcggggca ggagaagacg cggctgatgc tggcgggagac 120
ggagctcccc agcggcctcc tgccgctcaa ggacatcatc gagtgcgggt acgtggagga 180
gactggcttc gtgtggctca agcagaagaa gcgggtggac cactacttcg ccaaggccgg 240
ccgccatgtc ttctacgcca ccgaggt 267

<210> 499
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012c01b1

<400> 499

cggacgcgtg ggcggacgcg tgggcgcggc ggcgcgagg gaccaccacc accaccaaca 60
ggacgaggac ggggccggcg gcgggtactc tctgttcgcg ccggggccgt acgggcagtt 120
cggcaccgac cagtcgttcg cgttcgccgg ggccgggcag cacggcggcg tctcgctcac 180
gctcggectc cccacggcg ccggcgacca gacggcggtc ctcatgggag gcggcagcag 240
caacggcgcc gacagcgggtg gcagcggcgc cgccggctac gacatgaaca tgcagaccac 300
caagtccttc gcggctcagc tcatgagaga ctctgtggca tagtatgaat atcaccacta 360
ttacatagcg caatccatta atcaaataccc aaaaaaaaaat cggttaatca atcaatttag 420
ggcttgata gaaaataaaaa 440

<210> 500
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012c04b1

<400> 500

gcattaccaa taaggcatga caaagcggcc atcggtgatt gttgcaaata aaatagatga 60
agtgaggagct gacgagatgt atgaagaact gaagaggaga gtgcaagggtg ttccgatatt 120
tccagtgtgc gccatcttgc aagagggagt acctgatctg agagttggcc tgagagacct 180
tatggatgcc tcggatccgc aagggtgcga tttgagcaaa gttattgtag actaaaaggc 240
tttgcccctc gttggagaag aattgttctc caattttttc cccttgagca ctgtctgctt 300
acagatgcac tgtagaccgc tgttgcaaaa attgctctaa ttttctgtgt tgcagaatag 360
atcatccatt gtattagaaa attcagtgtg ataataacta agggtaacca gtatgtatgc 420
tttggctctt gata 434

<210> 501

<211> 214

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012c05b1

<400> 501

cccacgcgtc cggccccact tagtcccaac tagtaggata gtttatggag gattagattt 60
ccttgccggac tgtaccccaa caaggttagg aaatggacag aatggtgtgt aaattgtgct 120
tgacatgtac tgtaggtagg taggtaggta catacgtact ataaggcttg ttgtatcgac 180
cttccttggt tagcttgaag agtctttcct tttc 214

<210> 502

<211> 362

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012c06b1

<400> 502

gcggagagcc tatttggacg ccttacaatc gtgcccatga ccatctccca gctagaaagg 60
agtatgtcga caagattatc aacagaggtg ggaaccaaac cgtcgaagct cgttgatggc 120
tctacagtg ttcggcagcg agtgagtctt ctgtatgtat ctacatatca caccaaaagg 180

ttaccgaata agatgtgtga ttggctttcg ccggtgtaccc ataccagcat cgatcctgta 240
 tcacttgtgt ggtagtttgc acaaaacctg cttgaaaatg tttcatggaa acttctttgc 300
 ctggcgatga tgccgtgtatt gaataataaa tgattcagtg tcaacaacgg cgtaatgaaa 360
 ac 362

<210> 503
 <211> 159
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c07b1

<400> 503

gtttgttgc atggctgtgg aagctgttta acctgtgtta tgtccaattt agctgttta 60
 ttctagtctg gttatgttcc aagacagagt tttatgtaat gtggggatta tatgtgtttg 120
 tgactgaatt ttatgcacct attaatTTTg cggcgtctc 159

<210> 504
 <211> 139
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c08b1

<400> 504

cccacgcgtc cgtggacgcg tggggtgaaa caaagcaagc ggtactgcag cttttttttc 60
 acctgtacga ttattcatcc gatgagggtca tgtaacagta tttgattggt ttatcgaaca 120
 agaatgatgg taaacttcc 139

<210> 505
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c10b1

<400> 505

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 gaatctcata atcaagtgca agctgctcca tttgcatctc aagatcctca cgggtcttct 120

tgtacagctc gatctcatca ctcagttcaa gaatcttctc ttgtagttca gaactagcga 180
cgccatcact cttcttcacc aatgcatcca acataagctc gtcttcttctc tcttggtacg 240
agcttggttc agacatgtcc atcttggtgc cagcactgtg cacatttgac agtgcacgtc 300
catattctgc ctctgggga tctctactg tttcttcttg caaatggac atatctctat 360
tcttctgctc gagcatttca tcaagatcct tcacagccag aagcagctca gagttggact 420
cctgcatttt c 431

<210> 506
<211> 63
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c11b1

<400> 506
aaatttaaaa atttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaa 63

<210> 507
<211> 157
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c12b1

<400> 507
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cttcgcctga atggttggat aattgaatag tttgttgtag tacgatctgt ggactccttt 120
cgtccgaagt attgaatcat atgcttaaaa aataaaa 157

<210> 508
<211> 246
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189012d04b1

<400> 508

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cctttacata ggcaattgga tgattagtagc tgtcagcatt gtttagcttg ccttgctcct 120
ccagcgaaac gccacacatt gttttttttt ccccgcaaag aaagggaact aggacaacct 180
gtgttgctaa actgaagaat tgcgtgaaac tggctggttg atgcttgtgc aatctttgct 240
ttcgng 246

<210> 509
<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012d05b1

<400> 509

gccagatcat gcttttacta gttggattta gcagcgtctg tgttcagtaa acgaattttt 60
actatgagta tgttctagac tgaaatgtaa tggttgaacc tgcgaggatt ctgtgttatt 120
tcacttgctg gagaatggag atatgttacc ttatatattc tataatttga ttggattgtg 180
cac 183

<210> 510
<211> 284
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012d06b1

<400> 510

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gcgcatgaaa tgaagaagat tgccatgcatt agctgctttt acactcgggc tctatgaatt 120
tacttaatcc tcttgtaact gctttgatga caactggcga gagaacttgt attatgtctg 180
ctctcacgaa tgctccttca tgtttgtctt aagtgagtac atgttgcaaa ttcatttgta 240
cactttatgt ctgttgaagg tgaaattgaa cacattgaca gctt 284

<210> 511
<211> 464
<212> DNA
<213> Triticum aestivum

<210> 516
 <211> 241
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189012e01b1

 <400> 516

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 atgcccattct gaaaacccta gccctgatgc ccgatcccgg cgagcgagat ggccaaccgg 120
 aggggtgttct ttgacatgac cgtcggcggc gcgccggcgg ggcgcatcgt gatggagctg 180
 tacaaggacg cgggtgccgcg gacgggtggag aacttgcgcg cgctctgcac cggctagaag 240
 g 241

<210> 517
 <211> 244
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189012e02b1

 <400> 517

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 ggacattcag aaactcactg cggcataagt gcttttgagt ccggcttcag ttaagcactc 120
 ctgtatatat tgcctttttt tttcttcgg aaactagagt tttacttgtg attatgactc 180
 ttgtgcgata taatgttttc cattcctgta aagtaattca ctgatatgta tagacatttc 240
 cgaa 244

<210> 518
 <211> 353
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189012e04b1

 <400> 518

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 ccgtggcacg tgtgcttctc ctacgcgcgg gcgctccaga acacctgcct caagacgtgg 120

ggtgggaggc cggagaacgt ggccgaggcg caggaggcg tgctgctgcg cgccaaggcc 180
aactccctgg cgcagctcgg caagtacacc agcgacggcg aggccgaggga agccagcgag 240
aacatgttcg tcaagaacta cagctactga tccgtcggcg agctatctat ctaattatct 300
acctatggag ggagagtgcg agtagcgccg tgagcagctt gagggcacct tag 353

<210> 519
<211> 328
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189012e05b1
<400> 519

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ctctctttgt ccttcacctt cgtcttctc cctctcggca gctcgacctt tgcattggcag 120
cagtggctag ctccaagggg cgggtgatcg ctgggagcct cgtcgcgcgc gtactcgccg 180
gcaaggccaa cgccctccccg aggagggcg tgcacgcgtg ggcctacgac aagaacgtgg 240
acgagcaggt gcgcccggcc ttcgtgccg acgatgtgat cggcggcgcc gggagcccag 300
acaagtactg gggccctcac cccaccac 328

<210> 520
<211> 179
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189012e06b1
<400> 520

tcgcggagcg gtgggaggac gcgtgggata cgggtctactg ctatgcttgg cctgcactcg 60
gtttcataag caggtacata ttctgcaatg ctgtgaacat atattatccg tgcttccagt 120
gatggatatg ctagttttat cagcaataat aaatatataa tgatccgtgt tgcctctg 179

<210> 521
<211> 279
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189012e07b1

<400> 521

tcgcggacgc gtgggcgtct cgtctcctcc ttctctctgg tcctccaagc caagaaactc 60

ctcatctcca ccgtccgccc gtgaaggaag gaggcgatcg gccatgggga agatgtgctg 120

cagccaggag gaggacgagg cggggttcaa cctgctgccg ctggatgatgg ccgccttcgt 180

catcatgctg ctcttcgtcg gctgctcgcc gccgccccgg cgcaggcgct gcgtcgctcg 240

tccgtgctac tgacctgacc tgacctcatg gtggccggg 279

<210> 522

<211> 401

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189012e08b1

<400> 522

cagtatgtaa cttacaattg atggtcggta ccaactgatat ccctgattgg tgctttctgg 60

aggtttatgg aaaagaaggg aaaaactgct ttacggaatc tcctttggcg gacactctta 120

ctcagtttta ccagaaatca ccaatatcac atatttccaa gggttaagaca ccaacactct 180

ttctttctcg agcaaaagat ctccgtgttc ctgtttctaa tggcctacag tatgcaaggg 240

ctttgaagga gaggggggatt gacaccaaaa ttattgtctt cccagaagat attcatggac 300

ttgacaagcc acagtccgac tttgagagct tcctcaacat aggagtttgg ttcaagaagt 360

acttgagcaa ataagcattg ngctcttaaa cacaatgatc t 401

<210> 523

<211> 195

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012e09b1

<400> 523

ttttctctc ccaataaaga tgaggatcga catcatccaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacac aagaacacca 120

gagccgatga caacgaacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaag 180

gggggggggg tttta 195

<210> 524
 <211> 215
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012e10b1

<400> 524

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 cttcctgggt atctgcttgc tgggtgcaagc aaagggctgt ttggctgctt taaacttttg 120
 gtctgtgtaa tagtctgtgc ttgttgtctg gtgtgttagc tctttgtaca gtggtgacat 180
 ttggttagct atatgaaaaa catatcaagt tggtc 215

<210> 525
 <211> 421
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012e11b1

<400> 525

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 gcagcgcccc cctcctccgt ctccgtcagg gccggcgctt ccgtctcggc gaagctgacc 120
 cctcgccagg ccgcgagggc tgggttcggt ggcagggctca gcgtcagctc gggcaggaag 180
 tgcggcgggc ccgtgcgggc gtcgctcttc tcgccaagc ccgcggtggc catggacgcg 240
 aggccgacca aggtgcagga gctgcacgtg tacgagctca acgagcgca ccgcgagagc 300
 cccgcctacc tccggctcag cgccaagcag agccagaacg cgctcggcga cctcgteccc 360
 ttcaccaaca aggtgtacaa cggcagcctg gacaagcgga tcgggatcac ggcggggatc 420
 t 421

<210> 526
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012f01b1

<400> 526

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 catacatctt atggtgatct gcggcaatct ctgtgtggtt ttttcgacac cacaaccgga 120
 aacaaaagag aagcaaggag ttatttttgag atctcgcaat cacttggggg ggacaatccg 180
 tctcaaactt tattcatcac agatgtgttg caagaagccg ttgccgcaa gagtgcaggt 240
 ttcgaggtaa taatctccat tcgccccggg aacgcaccgc ttcttgcgaa tcatggcttc 300
 cggactatca gttccttcag tgagatctga caaatgtgca agaaacgaac atgccaggga 360
 atctctattg ggtgtgtaac atgacagtgc ttcgtggccc cccggatcat gttcttgtaa 420
 tagtagtat 429

<210> 527
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f02b1
 <400> 527

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 attaacattt ttcaggggaag ttataacaca gatgttcctc cggttagggt aagttaccat 120
 cacggtaacc attataattc agttgttgat cctcgtcggc tgacagttgg ggcaggcctt 180
 ggatttagct cccttagagg gaccaacagt gttgacagag accaagtga ggctgcaata 240
 aaagctcagc aagatcagca gattgagaac gcacttttgg ctgaagggcg actctactct 300
 gatctggagt taactgagaa ggaaatagag cggatggtga tggaggcctc tcgggcagag 360
 tatctgaacc agcagcaagt taacttcaga gagtcatca 399

<210> 528
 <211> 86
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f03b1
 <400> 528

gcgcccacgc gtccgcggac gcgtgggcaa gaatagattg gatctatccg gctgcacttt 60
 ataatatctt ttagtatctt tcggat 86

<210> 529
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012f04b1

<400> 529

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 ttccctcgcc gccacccacc aaggaaagga ggatgtcttg ctgcggcggc aactgcgggt 120
 gcggcgccgg ctgcaagtgc ggcaacggct gcggcggttg caagatgttc cccgacgtgg 180
 aggccaccgc cggcgccgcc gccatgggtca tgcccaccgc ctcccacaag gggagctccg 240
 gcgggttcga gacggccggg gagaccggcg gctgcgactg caccacctgc aagtgcggca 300
 ccgcgtgcgg ctgtctctgc tgcagctgca actgagccgg cggccaggag gccggccggc 360
 agaggcgagc acgaggatga ggaggacaag caagcaagca ccatcaccac cagttcacca 420
 ccaccag 428

<210> 530
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012f05b1

<400> 530

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 gcaatcttct ccccgagctg ctagattgga ttgatgattt ggattttaac gtcgggcggg 120
 agagcatgcg ggctgtctga attgcgctgg atgtggaagc tcttgtaact cacatgaaca 180
 tgtagtgga catcttggtt gtagcatgta aatcttaggg atactgttga gcctgtgtag 240
 acacactgta acattaatca tgagcaccaa ttgtcatagt ttttgagcaa ctgggcacac 300
 atcataagcc cttgtactat ttttcacatg taatctgcaa ttgcagtatg ttcactctgc 360
 ttgtactaat aagtgaagaa catttcg 387

<210> 531
 <211> 382

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f06b1
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 ccggaccagc agcgccctcat ctttgccggc aagcagcttg aggacggccg caccctcgct 120
 gactacaaca tgcagaagga gtccaccctg cacctgggtgc tccgcctgcg tgggtgggatg 180
 cagatcttcg tcaagaccct caccggcaag accatcacgc ttgaggttga gtcttcggac 240
 accatcgaca acgtgaaggc gaagatccag gacaaggagg gcatgcccc ggaccagcag 300
 cgccctcatct ttgccggcaa gcagcttgag gacggccgca ccctcgctga ctacaacatg 360
 cagaaggagt ccaccctcca cc 382

<210> 532
 <211> 280
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f08b1
 <400> 532
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 ggtgttgctg ttgcatcact gtttcgcaat cagatagatc tttttcgtca gctttggaga 120
 ccaactgaaa gctcagggtca acgtgtaatc gtactgttaa gtgcttgctg tttgttgga 180
 gttgttgggt ccagatcaga togatcgga tcaggagta cagctctgtg cagaagtgg 240
 ttctgacgtg ctaaaaacta tacaagaaag agagctaaat 280

<210> 533
 <211> 202
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f12b1
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 gcgcctggcc gcctcggcac gccctgcgcc cgccgtcggg cgcaccacgc tgttcgtctg 120

caaggcgag aagagcgacg aggctgcatc tgacgctgcc gtcgtcacca gccggcgcg 180
cgcgctgtcc ctctcgccg gt 202

<210> 534
<211> 246
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g01b1

<400> 534

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ggttttagtag cggggaagag gaaggcatgg cggacgtcga gtaccgttgc ttcgtgggcg 120
gtctcgctg ggccaccgac gaccagtccc tacagaacgc cttttccaag gacggtgacg 180
tcacgactt caagatcatc actgacaggg agacgggccc ttcccggggg ttcgggttcg 240
tcacct 246

<210> 535
<211> 379
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g02b1

<400> 535

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agttatcgat ctatctaccg tgcgtcgtc gtcgtcgtc tcttcgtcag caagttatct 120
tcgggtgctg cgtgttctg tgcagtcgt agtcgtcgtg tgtgtggtgt ttttgatcgc 180
gagctcgagt gtcgctctgt cgggggttaa ttagagctgg ttacgcgagg aagaaacaac 240
atgtgttact atctttcagt cggtcggctg gtcggtcagt cggatgatgca gcaatcccct 300
tctgtcatgg attgggatgt gatgttgaa tctctatgt ttgaacaagt ttaaattgat 360
taagaaaatg caagtcata 379

<210> 536
<211> 119
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012g03b1

<400> 536

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaa 119

<210> 537

<211> 323

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012g05b1

<400> 537

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cgctctatct acccttattg tcggtttcac ttgcctagcc tagtttgaag agtttcccgg 120

gggtggcgag gagtaccggc atacgagtc cctggtgttt tctctacga gctggggagg 180

gcgtgtggtt ctctcctcga ttggaacgaa aagaagaaac tacagcgtca cataactgca 240

gcaaagaagg tactgcatga gatgtaacag ggtcgtatta tggaagaaca gaatccctgc 300

tgttgcacgg agtgagtaca gtt 323

<210> 538

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012g06b1

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gcacgttcgc ctccgccacc ccggggtcga acccgggccgg ctcgatgctc gaccgctcgg 180

ccgggctccc cgccggcgac ccgctcctcc aggacatcct catgtactgg ggcaagccgt 240

tctgagaatc cagctccgtg gctgtacgtg tggtttggga gggaatcgat cggggtgact 300

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aatagggcac aaggagc 377

<210> 539
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g08b1

<400> 539

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 gagtatgatg agtcagggtcc agcgattgtc caccggaagt gcttctaagt tgcgagttgt 120
 ctgggtcttc tgaatctatt ctggctgttc ttttctcaag tccttgccat gtaagctact 180
 atgtttgaga ttgctgggat tctgttgact gtattaccgg attaatttgt tgggtcaaaa 240
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 gtctttgtaa gattttt 377

<210> 540
 <211> 271
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g09b1

<400> 540

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 tgcttgata atacagtaca gtatatggtg attgtcaccg tgtgggtcaaa ctccatctg 180
 gtttgctggt gtaccgtatg tacgtgttgt agctatgggt attgtatttg tagggcagat 240
 ttcatttgtt cattctcagg tgggttttgg t 271

<210> 541
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g11b1

<400> 541

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 agcagacggc gaggaagtcc accggcggca aggcgccgcg caagcagctg gccaccaagg 120
 cggctcgcaa gtccgccccg gccaccggcg gcgtgaagaa gccgcaccgc ttccgccccg 180
 gcaccgtcgc gctccgggag atccgcaagt accagaagag caccgagctg ctcatccgca 240
 agctgccctt ccagcgcctg gtgcgggaga tcgcgcagga cttcaagacc gacctccgct 300
 tccagagctc cgccgtctcc gcgctgcagg aggcgcgcga ggcctacctc gtcgggctct 360
 tcgaggacac caacctctgc gccatccacg ccaagcgcgt caccatcatg ccc 413

<210> 542
 <211> 172
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012g12b1
 <400> 542

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 agagctggat catttgttcg ttggtcgtcc taaatcatcc acctggtggg tgcttatctg 120
 aaccttgcac tttatgtctg agaattagtg attgtgtgaa ccattattaa ca 172

<210> 543
 <211> 327
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012h01b1
 <400> 543

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 ccgacatggc caggctgcgc gagttcggcg ccgccgtgag gcgcatcttc ggcacggacc 120
 tggccgaggg cagcagggcg cgggccagca gcgagcgcgg cggcggattc gaggcgggga 180
 aggtgctgga cgggcgcgag gagacgtact gggcgccgac ggcggaggac ggggtggcgga 240
 acgggtactg gatcgagctg cggcggcccg cgggggcgcg ggcgttcaac gtggtgcggg 300
 tgcaggagca cgtggcgctg gggcagc 327

<210> 544
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012h02b1

<400> 544

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 tccagatctt ctccgagggc ggcctcgact acctgggcaa cccaacctg gtgcacgcgc 120
 agagcatcct cgccatctgg gcggtgcagg tgggtgctcat gggcttcacg gagggctacc 180
 gtgttgggtg cggccccctc ggcgagggcc tcgacatcat ctaccagga ggcgccctcg 240
 acccgcttgg cctcgccgac gaccccgaca ccgccgccga gctcaagggtg aaggagctca 300
 agaacggccg cctcgccatg ttctccatgt tcggcttctt cgtg 344

<210> 545
 <211> 322
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012h03b1

<400> 545

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 ggaggccgcc ggccgccgcg cggtccttgg cctcatggcc agcggagtcg tcggcagcgc 180
 gttcgctcag gtggtgcacg ccggcaccgt cgcggccatc aaggttggcc cgccgccgcc 240
 gctcttcggt ggactccccg gaacggacaa ctccgacgag gcaagggact tcgacctgcc 300
 cctgaagaac cggttctacc tg 322

<210> 546
 <211> 263
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012h04b1

<400> 546

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attggtttttt cggcaaagat ggtttcgccc gtcgtgatcg cgtcggcggg gctcgggatg 120
 ctggcggggcg tggcgatggc gagccgggga tcgggcgacg ggctgccggc ggcgccagg 180
 tgggacgcgc ggccccgttg ctccacgtgc agcggcaccg gccgggagga gtgcctctgc 240
 agccgttggt ccgacggcga cgt 263

<210> 547
 <211> 385
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012h05b1

<400> 547

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 gttcactaca ttcaacaagg aaaaagcaaa agagtgtagt cttgtgatgc agcccacttg 120
 tttcattttt gtgtgtattt tgaagatggg gtgcaggaag acagtgattt ttgtgtgtat 180
 tttgctcagg gttgacattt tttccgcttt acagattttg gctgccatcc catgggtgca 240
 caggtgcagt gctgtgggga ctggacatgc agtgtgtctgg caccgacttg catttcacaa 300
 aaaaaactgt ggattttattt ttttaagtccc tcgtcactgt aaattgtgtg tgtttgtatt 360
 gtagattaaa aagaggaaca ttgta 385

<210> 548
 <211> 362
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012h06b1

<400> 548

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 ccgcggaggc caaggcacc c tactacacgc gggacgccgg gcggcgctg cgctacaact 120
 gcaacgccga cctcttgccg acgctgctgg gcaagtggcg cgacaccatc tacatggacg 180
 acgtggacca gctggcgccg ggcgaggagg aggaggtcct cccgccggcg tgcaggggcg 240
 tcgcaccgaa gtacacggcg cagatgcgga tgctggggcg cgcgctcttc gagctgctgt 300
 cggaggccct gggcgtgcgg cgcgggtacc tggaggagga ggccggctgc ctggagacgc 360

<210> 549
 <211> 72
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012h08b1

<400> 549

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 tgcccggcgg cc 72

<210> 550
 <211> 397
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012h09b1

<400> 550

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 cctagtgcag gcgaccatga tattcttcat tggatgcctt gtgctttgtg cacagtgtgc 120
 tgtcgataat aagcaaacga tgggtcaacca agatgatcat gcagcgaaca caaataccaa 180
 cgctaccatc gtcaactcaa catctgtagg cgagagcaag aaaaccgagc tattttgcag 240
 cctctatctc gtatgttatt tcaactttga gctccgtgct aagtgtact gttgccagaa 300
 taagaatggc gaatgttaca agacgaagag tgagtgcctg cagaagtgcc attcctacaa 360
 cgggttaatgc ccaccttcat cgggggtctct gggatag 397

<210> 551
 <211> 249
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012h10b1

<400> 551

tcgcggacgc gtggggcgac gcgtggggcg acgcgtgggc ggacgcgtgg gtcgtgttcg 60
 gtagtagaat ttggctacag ttttgaatta tgataccccc ctgtgtttgt tatccaagac 120

ttcgttgaag tagatcgcat gctattctgg tacaatgggtt attgtctgag cttttaaatt 180
 atctgcccgc ctggggagaat cttatgcttg tgagttcttg tcataaagat ggattttact 240
 ccttgcggtg 249

<210> 552
 <211> 202
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189012h11b1
 <400> 552

cccacgcgtc cgcctcatcc tccatgtgga gatggctgca cctaggccta cttagttact 60
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 gtacttttgt gtcgtgagct tgtgtctgtg ttttgccttg ttgagaataa ctacactctg 180
 ttggtgaaaa agtgaatttc gt 202

<210> 553
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189012h12b1
 <400> 553

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 ccgcatcgcg cacgcgctgc cctccccctc cgtcctccgc tcccacttca cctcgcgga 180
 cggggccgcc agcaccgccc tcggaagccc cgatgagatc gccaaagtgt tcccctgcct 240
 gtacggccag ccgtcggccg ccgtggtgcc gtccgcccag ccggtcgaga cgaagccgct 300
 caagatcggc gtcgtgctct ccggtggcca ggcgccaagc ggccacaatg tgatctgcgg 360
 catctttgat tacctgcagg agcgtgccaa aggcagcacc atgtatg 407

<210> 554
 <211> 296
 <212> DNA
 <213> Triticum aestivum

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013a06b1
 <400> 557
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 ttgggcattg cttctccatt tatctttctt attagctcct aagaatatgc gtatgaccat 180
 gttcatgtac caacatggct cgagacagca tgctcgatg tgaatgctat cgggggctat 240
 gtatatgcac ggacgcattg cacctgacgc atgttgctga atacgatgat gcggacatac 300
 gcgtcagggt actccttatt gacctccttc acctcggtga tcacc 345

<210> 558
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013a09b1
 <400> 558
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 tgttctccgc ctcgctcgcca tagccacctt gagctcgagc agaggagcgg ctccggcagga 180
 gggggcaaca gccagccgcg cctcgctcgt gtcgcgtggt ggcccagatg cggctcgtccc 240
 gtgctctgcc tccacgagcg cggcctcgat ccaaactcgg caggaggagg ggagcagcag 300
 ctggccatgc tgtgttggcc gtggaggagg aaggagctca tgtggctagg gattggctac 360
 cctc 364

<210> 559
 <211> 337
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013a10b1
 <400> 559
 gcgtcccag ccctgaccag tgccatacag gccactcaac caaaacgagg tcagatttct 60

<210> 562
 <211> 305
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b01b1

<400> 562

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 catcgccgcg atgggccgca agctcgcgct cctggtgggc atcaactacc ccggcaccaa 120
 ggccgagctc aagggatgcc acaacgacgt tgaccgcatg cacaagtgcc tcgtcgaccg 180
 gttcggttcc gacgaggaga acatcacctg cctcctcgac cgcggtcctt ccgggccgca 240
 gccacccggc gccaacatcc gccacgcgtt ggccaagctc gtcggggacg cgccgccggg 300
 ggact 305

<210> 563
 <211> 371
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b02b1

<400> 563

caacagcaac gaagaagtac tctgcttttg gatcgaggac tgaagaaaat agataggaga 60
 atcgatggct accttcgcga cgtcgacgcc ggcggtgatg gggctctgctc gcacgggccg 120
 ggtggccggg cctcggcggt gcgtggtggc gcgggcgtcc gcgacgatgg cggcgccggc 180
 ggcggtggcc gcggggagga cgactacga agtgctcggg gtgggtgccg gggcgagcag 240
 gggcgagatc aaggcggcgt accggcgtct tgccagggag gtgcaccggc acgctgctgg 300
 cggcgccggc gacgaggggt tcattcggct gcacgcggac tacaccacgc tcgtgaccc 360
 cgacgagcgc g 371

<210> 564
 <211> 116
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b04b1

<400> 564

catgtttgaa gtcattaccc ttaaccgtaa ggaggggat gcctaaggct aggcttgcca 60

ctggagttaa gttatcgtag ctgtaatttt atcatcaagt ggaattctgt aatttt 116

<210> 565

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b05b1

<400> 565

ggttgcaggc ccagagctct ttagctgaag caggtgctgt ctccggcgtg gcgctaccca 60

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agggcattgt cccaacaatg ggccgtgaga tccccggcaa cgccataatg ttcggcgtgt 180

acgaggccgt caagcagtac atggctgggt gtcgggacac ttcaggcctc ggccagggt 240

ctctcatcct cgccgggggc ctgccggag gagccctgtg gctcacgggt taccacaccg 300

acgtcgtgaa gagcgtgac caagtggacg actacaagaa gccgaggtag tcggggtcga 360

tcga 364

<210> 566

<211> 401

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b06b1

<400> 566

gcttcctaca tatccgtatg atcgcttgag gacatcttca agcaatcctg tcacagacat 60

tgatagtacc aggcgtgaga cgtatctatc ttcggcagag ttcagggaga agtttggcat 120

gacaaaggag gcttttgcaa agctacaaa gtggaagcag aatagggtca agatcgctct 180

tcagctcttt taaaatgtta tgctgtcaaa tatgcactag ttatgtcttg cctgttggtg 240

aaagcaagga cgttgagatt ggttttcaaa ggcaaatctc aaacacgaag atctctctcg 300

cactcgtagc aatgttaaga agagacatcg gtaagtgtaa gcctatctgg gtcaagggga 360

ccctcggtag gcgtcggagg ggctggagca gtgagttttg a 401

<210> 567
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b07b1

<400> 567

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 accttgtctc atgggagaag gagaatgtgt ccagtgaggc tcttgaggct gcccgatttg 120
 cttgcaacaa gtacatgacc aagcatgcag gaaaggatgc cttccacctc agggtcaggg 180
 ttcacccgtt ccatgtgctc cgtatcaaca agatgctttc gtgcgctggg gctgataggc 240
 tccagactgg tatgaggggt gctttcggga agccgcaggg agtctgtgcc cgtgttgcca 300
 ttgggcaggt cctcctttct gtgcggtgca agcccaacaa tgccatccat gc 352

<210> 568
 <211> 89
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b08b1

<400> 568

ggaatggaca tctctgcatt ttaccctga attcgtctgc aatctcttgc tctgttggtta 60
 aatcttatca gttggctctg ttaaattctt 89

<210> 569
 <211> 287
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b09b1

<400> 569

gtcaaggatt agcaagcagt aatagtgaag ttgtactgag gagcgagcga aacgatcgaa 60
 ggttcacgac cccttattag ctattaagag agtttgaggc aatgtatgtg atacagattc 120
 agagttgtta tggagatatt aacctgcaat aagctgctat gctgttgtgt actagtgtctg 180
 ccttatgtat accctgtttc ctgtagtgca ctgtaggttt tatctcaact actatgtatg 240

tattcccctc tgaaaatgat gaattctcct gaggatttct ttcatca

287

<210> 570
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b10b1

<400> 570

gcgacgggct ccgagtgccg acgtacctct acggcgcggc gcaccgggag ggccggaagc 60
tggcggccat caggaggcag ctaggctact tcaagcccca gagcagcgcc gagtggcacg 120
ggccgctccc ggtcgcggcc gacacgacgg cgctgccagt cgcgcccgac gccggcccg 180
acgcggagta agcgtccaag ggcgtgctgg tgctcggggc gacggactgg gtggacaact 240
acaacgtccc ggtgcgcacc gacgacgtgg aggccgtg 278

<210> 571
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b12b1

<400> 571

actaaacaag agcttgagct cgatcgatcg aactcaaaga tgtggaaacc atgtaccgat 60
gaataatact caatcaacct ttgtcttcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggggg 229

<210> 572
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013c01b1

<400> 572

tcgctctgac attgtttttg ggctttcctt ctccatttat ctttcttatt tgttcctaag 60
aatatgtgta tgtccatgtt catgtacgaa catggctcga gaaagcatgc tcgtatgtga 120

atgctatcgg tggctatgta tatgcacgga cgcataatat tatacaatat ggcgactata 180
 tacgtttttaa tggtaaccaa tgg 203

<210> 573
 <211> 358
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c02b1

<400> 573

gcctggccga gcagctagcg aagaagttca agggccagga gtgcaccaac accaccggag 60
 ccaacaccgt gcccggcacc gagccgcagt tccccgacta cccccagttc ctcgaccgat 120
 gccacctcaa cgcgtcgggtg accgaggacg ggcaggtgat gccggcatgc gtgcccggcc 180
 ttgtggccga cattgtgctg accaactaca ccaagtccca gtacaaccgg tttctcaacg 240
 acaccaagta ctctggcgtc gggatcgcca acgaaggcga ctgggtggtc gtcgttctta 300
 gcaccagcac cgactccggc gactacttcc ctgctcccc aggctccaac tgggcttc 358

<210> 574
 <211> 249
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c04b1

<400> 574

cccacgcgtt cgatcggagc accaggtacc gagggctgtg ggagagccgc tttcgcggca 60
 aatacggctc cttcgacgac cagacaactc ttggggccat gcgctataca ttcggaccca 120
 tcccagagcta cgccagacct cattggacca tccagatctt gggcatgcgg gtggacaacc 180
 tggaagacgg tctgcagcgg ccggtgcatg tccacggctt tgtcgccgtg agggacacct 240
 cggatcaca 249

<210> 575
 <211> 355
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c06b1

<400> 575

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gtgggttgag cccccagacg cttcttgatg tcctggatct cggtgcaatc gcaaatccga 180
tgttcaagat gaaagggcct tcaatgctgc agggcagcta caatccagca tttccctga 240
aacatcagca gaaggatatg aggctggctc tgtcgttggg agatgaaaat gccgtgtcca 300
tgccagtggc agctgctgcc aatgaggcat tcaagaaagc aagaagcttg ggact 355

<210> 576

<211> 59

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c07b1

<400> 576

aaattattaa aatattttaa aaaaaaaaaa aaataaaaaa tatatcaaaa aaaaaaaaaa 59

<210> 577

<211> 468

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c08b1

<400> 577

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accatatctg cagctgcaac catttccgca gccgcaacta ccatattcgc agccacaacc 120
atttcgacca caacaaccat atccacaacc gcaaccacaa tattcgcaac cacaacatcc 180
aatttcacag cagcagcagc agcaacaaca acaacaaca caacaagaac aacaaatact 240
tcaacaaatt ttgcaacaac aactgattcc atgcatggat gttgtattgc agcaacacaa 300
catagcgcac ggaagatcac aagttttgca acaaagtact taccagctgt tgcaagaatt 360
gtgttgctag cacctatggc agatccctga gcagtcgcag tgccaggcca tccacaatgt 420
tgttcatgct attattctgc gtcaacaaca aaaacaaca caacaacc 468

<210> 578
 <211> 359
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c09b1

<400> 578

caaagctgaa ggtgtgaggc aaatgttctt ccctgctacc gtccccgcgt attacctgc 60
 acctcctgaa gcggagttct gatctatgaa ggtgcagcta atctctcgca cgatgacatt 120
 tttcctgtgt tggtagttgt tgaaaatgtg ctgtgttggg agtccgaatg gatcgaggaa 180
 cgtgtatagt atctccgttg ggtgctgata ctgcttttgg aatgttctga attgctgcat 240
 cgggtgcccatt gttgattcgt cctagctaaa ttgtacatct ttgttgtgct actaatgaat 300
 tgcgcctgct gttctaacta gtggaccaag gtggtgttcc ttgtctactg atcgtgagc 359

<210> 579
 <211> 94
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c12b1

<400> 579

cccacgcgtc cgccggacta tttaaactct gaactatgct gtgatgggtg aactgatgtt 60
 ggattgttaa gggttatgtt ggaggccact ttat 94

<210> 580
 <211> 360
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013d02b1

<400> 580

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 ggcggcgcgg cggcccccg ggactacgtc tacttcaagt ccgtcgtgcc gctccacaag 120
 atctctcttg caggtgccga tgagtccgtg cagatgatgc aaccaagctc aggaggagct 180
 cgttgaagat cttatccttt gtgttgtttc gttctagttg atcagtagtg gagcccagtt 240
 ggggtcaatc ggggaccgtg tcacatttgg gttcttcttt tattttgggt tccgtagtca 300

gaccttgatt gtatctagat gatgtaatgc tttattcatg taattgtgtg aagtgccttg 360

<210> 581
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013d04b1

<400> 581

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agcactgggc gcgcaacttc gccttcctcg actacttcaa gaaggtctac ggccgcgacc 180
agccccctcc caagtgggtcc gacgccgacg tcgaagagtt catcgctcc gaccccgctc 240
acggcccgcga gctcaaggcc ctgagggagt ccaggaagtt cgcgctcggc gggggccctgg 300
ccggcgccgc gcacctcggc ggcgttgccct tcaagtactc caagagcccg cacggtgtcg 360
tgctggcgac cgg 373

<210> 582
<211> 127
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013d05b1

<400> 582

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ctgcctgctg aatccatgag caggcaagag acaacctggc gaactgaaac atcttagtag 120
ccagagg 127

<210> 583
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013d06b1

<400> 583

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tctccatcga cgactcgctg ccagcgcgcc acttcctcaa gtcgtgggag ccggccggtc 120
tcgccggccc gcagccgcct cgcgccatcc tgatcgtgtc cggccactgg gagacggaca 180
ccccggctgt caacgtcatc cgtggcacca acgacacat ctacgacttc tatggcttcc 240
ccgaccggat gtacaagctg gtgtaccctg cgccggggcg gccggacgtg gccatgagga 300
ccaagaagct cctggaggac gccgggttcg ggccggtgag cgaggaccac ggtcgcgggc 360
tcgaccacgg cgctgggtg ccgctgatgc tcatgtaccc 400

<210> 584
<211> 62
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189013d07b1
<400> 584

aaaattatat aaattataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattaaaaa 60
aa 62

<210> 585
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189013d09b1
<400> 585

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ccccgatccc ggcgagcgag atggccaacc cgagggtggt ttctgacatg accgtcggcg 120
gcgcgccggc cgggcgcacg gtgatggagc tgtacaagga cgcggtgccg cggacggtgg 180
agaacttccg cgcgtgtgtc accggcgaga agggcgctcg caagagcggc aagccgctgc 240
actacaaggg cagcgccttc caccgcgtga tccccgactt catgtgccag ggcggcgact 300
tcacccgggg caacggcacc ggcggcgagt ccatctacgg cgagaagttc gccgacgaga 360
agttcgttca caagcacacc aagcccggga t 391

<210> 586
<211> 337

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013d10b1
 <400> 586
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 agcgccagct gccgaccacc accgttgccg ccgcgccctc gtcgtcgtca gccaccgcgg 180
 tcccgcgga cgcgcccgag gaggccctgg acgcatccac cggggagtcg aggcggacgc 240
 tgcggtgtga catcgtgttc tactcgatgt acgggcacgt ggaggcgctg gcgcgtcacg 300
 cggcagcggg agcgggtgcg gtgcaagggg tggaggt 337

<210> 587
 <211> 212
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013d11b1
 <400> 587
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 cagcaaattg ctaccatcag cgccgccg cgaccaccg tcgtcgcccg tgccgccatc 120
 gccaggccgc aggccctagg tctgccccag ctgaggacga ggagcgagag ggtgaggtgc 180
 agctactcca aggacgcaa ggaggcgacc cc 212

<210> 588
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013d12b1
 <400> 588
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 gggacctctg gcttgatgtg tcttgccgat taatccatag attattctgt acgatgcaaa 120
 tcagcctacg gcttactgta agttgcagtt taggctttct ctctactgca aattttactt 180
 tgaaagatc 189

<210> 589
 <211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189013e01b1

 <400> 589

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 aacggcgcta gcctcggcag cgtcagcaac ggtggaagga tcaggtgcat gcaggtgtgg 180
 cccatcgagg gcatcaagaa gttcgagacc ctgtcctact tgccaccgct cagcacggag 240
 gccctcctta agcaggtcga ctacctgac cgctccaagt gggcgccttg cctcgagttc 300
 agcaaggttg gggtcatctt ccgtgagcac aacgcaccc ctgggtacta cgatggccgg 360
 tactggacaa tgtggaagct gcctatgttc ggatgcacc 399

<210> 590
 <211> 318
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189013e02b1

 <400> 590

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 tgatccgcgc tcagcgtaag ggtgcgggct ccgtcttcaa gtccacacc caccaccgta 120
 agggccccgc ccggttcagg tcgctcgact tcggcgagcg caacgggtac ctcaagggcg 180
 tcgtcaccca tgatcatccac gaccgggggc gtgggtgcgc gctggccaag gtgacctttc 240
 gccaccggtt caggtacaag caccagaagg agctcttcgt cgccgccgag ggtatgtaca 300
 ccggccagtt cgtctact 318

<210> 591
 <211> 278
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189013e03b1

<400> 591

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ggcgctgaac ccggacgcgc ccattgttcat cccggcggcg ttcaagaagg tggaggacta 180

ctcgccccgag tgggtgggagc tcgtcaagac caccgcctgg ttccgcgacc actggttccg 240

ccagcaccaa ctctacgagg acctcgccga caacgtgg 278

<210> 592

<211> 296

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013e04b1

<400> 592

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ggggctccca gacggtagaa ttttgtaccc aagtcggaca atctgtcaaa cttggcatga 120

aagattagga cacaatgctt gggctttgtg tcgctcggca acgtttttgt actttatgtt 180

gctcgagttt tgaaccacac cagttacgga atacggcaga ataacttgac atttctacag 240

agggtgtttgt atttgcgagt tatactatgc aattacgttt tgtgtgctgt gtgtaa 296

<210> 593

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013e06b1

<400> 593

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atgttgggga gtacattgtg cccgttccac atgtcaagca agtgaagctc tcaagtgtcg 120

gaggaaggct gataatggca tctgatggca tatgggatgc gctatccaat gaggcagcgg 180

ccaagtcatg ccgaggattg cccgcagaac tcgctgcaaa gcttgtgggt aagcaagctc 240

tgaaaaaatg tgggctgaaa gatgatacca cctgtgtggt gggtgacatc atcccatctg 300

atcatcattt gacatcgcca cagttatccc caaagagaaa tcagaacaag ctcaagtctc 360

ttctttt

367

<210> 594
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013e07b1

<400> 594

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tttcatcaag tagatatacc gggatcaaaa gaaccacagt tgtggaatga cgtattcaag 120
tttttgaaaa aagcttctgt attgaagttt gaagataatg agaagcagaa gaggtatgag 180
atgatctctt ttagagaaat acaagatgaa gttaaagaac ttaaggatct ctccgatctt 240
ttgcatgctc ctgttggtgt tgcacacaat gacttgctat cgggtaatct gatgctgaat 300
gatttggaag agaagctata ttctattgat tttagagtat ggtcatatag ctaccgtggc 360
tttgacatcg cgaatcattt caatgagtac gcaggctttg agtgtgacta caacttgtac 420
ccagataaag atgtacaata ccatt 445

<210> 595
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013e08b1

<400> 595

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gtgggccacc tccgtcgctc ctttccaggg gctcaagtgc accgccggcc tccccgtcag 120
ccgccgctcc aacggcgcta gcctcggcag cgtcagcaac ggtggaagga tcaggtgcat 180
gcaggtgtgg cccatcgagg gcattaagaa gttcgagacc ctgtcctacc tgccaccgct 240
cagcacggag gccctcctca agcaggtcga ctacctgatc cgctccaagt ggggtgccttg 300
cctctagttc agcaaggttg ggtttatctt ccgtgagcac aacgcatccc c 351

<210> 596
<211> 402

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013e11b1

<400> 596

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gtgagggcgg tgggctaccc ggcccggcgc ggctgcggcg gcgtgcagga gcacatcgtc 120
aaggagacgt tcgtgcagga gttcgacacc gccggcgcc gccatggtca ccacggtcac 180
cacggccgtg gctccggcca cttcgagggtg cgcgagagca ggctggagga ggacatcaac 240
accgcaccg gcgagttcca cgagcgcaag gagaacttcg tcgtcagggc cgatgactaa 300
gcttacacgt tacggagcac actacgatgt gtgtatatgt cggcatcata tatatgtatg 360
tgtgatgttg cgcacagtcg tatagcgtat gcaggcgtgc gt 402

<210> 597
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013f05b1

<400> 597

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cgggtgcatcc gcccagggga gtcacctgcc gcggcgctcc gccggatcct ggcgacgcca 120
ggcgcccacc aggcgccttg ctgcttcgac gcgctcggcg cccgccttgt cgagcgcgcg 180
gggttcccga tctgcttcat gggcggtttc tgtgtttctg cctcacgact tggattgcca 240
gatgttggat taatctccta tggagaaatg gttgatcaag ggcgtctaata caccgaagca 300
gtttcggttc ccgtgattgg tgatggagac aatgggtacc gaaattctat gaacatcaag 360
agaactgtaa aaggatatat taatgctggg ttggctggaa tcatgcttga agatcaggtg 420
gcacaaaaag catgtggaca cact 444

<210> 598
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013f06b1

<400> 598

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tctctcgcgc gcttccgagc tttggcctcc gtctccccct cctcccccca tctctccacc 120
agcgcagcgt agcgcggggt tccgccgctc cgaccgcgg ccatgaggga gtgcatctcg 180
atccacatcg gccaggccgg tatccaggtc gggaacgcgt gctgggagct ctactgcctc 240
gagcatggca ttcagcctga tggacagatg cccggtgaca agaccgttgg gggaggatgat 300
gatgctttca acaccttctt cagtgcgact ggtgctggga agcatgtccc ccgcgcggtc 360
tttggatgatc ttgagcc 377

<210> 599

<211> 379

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013f07b1

<400> 599

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gtgctggaga cccgcattga ggggtggcagc ctcttcattg ttccccgctt ccacgtcgtg 120
tccaagatcg ctgatgcctc tggcatggag tggttctcca tcatcaccac cccaacccg 180
atcttcagcc accttgctgg gaagacctcg gtgtggaagg ccatctcgcc ggaggatgctg 240
gaggcgtcgt tcaacaccac gccggagatg gagaagctct tccgggtcaa gaggctggac 300
tccgagattt tcttcgcccc caactagagc cattcgtcgc gcatcgggcg gtcgccttag 360
gcaggaataa ataaattta 379

<210> 600

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013f08b1

<400> 600

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actgggtcgt ctcccagctg gcgatcttgg actcgaggat gggttccctg caggacaaac 120

agaggaaacc agtctcctac atgtacgccg acgacttcat gacatctgac gccagcgact 180
aagccctgct ctaggagggg ggaagcttct gaattctgac cccaagtat ccagctccag 240
tategtatca tgtagtacta gaaagggtgcg ttagttgcgc caagtcattct gcgcgtctcg 300
gtttttgttg tacataggta ggctccggaa gctttattat tagtccatgt gttccacgtc 360
ggtggtagtg acaaattgtg aacatgacca tgta 394

<210> 601
<211> 144
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189013f10b1
<400> 601

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatataatat 120
aggaaattat ttttttttgg gggg 144

<210> 602
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189013f11b1
<400> 602

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accgggacgg cggaggacct gctcgagcgg gcgcggggcc tgggtgccggc ggcgctggac 120
gcggcgcgcg cggcgacggg gtttggcgcg cgggtggaagg ccatcgcggc gaggctcgag 180
agggtgccgc cgtgcctgtc cgacctgtcc agccaccct gcttctccaa gaacgcgctc 240
tgccgggagc tgttgcagtc cgttgctgcc accctcgccg aggcgcgccga gctcggcggtg 300
ctctgccgcg agccgccccaa ggctggcaag ctgcagatgc agagcgacct ggacgctctc 360
gccgggaagc tggaccttaa cctccgggac t 391

<210> 603
<211> 331

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013f12b1
 <400> 603
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 ttcgacgccc tcaacggcga caaggaccac ggcggcgctgc acgacggcac caccgtcgtg 180
 ctctgggagt ggtgcaaggg ggacaaccag tgctggaaga tctggccctg ggccgaggcg 240
 cacgccgccg tcgagtccgg cgccaccatg ggcaacaacg cccacgccat gggcggcggc 300
 cccccgtgc atgccgtgcg cgtcttctgc a 331

<210> 604
 <211> 318
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013g01b1
 <400> 604
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 gaggaacttt aggacatcct tggggaaatg cacctgggtgc agcagctaata cgagtggctt 120
 tagaagcctg tgtacaagct cgtaacgaag ggcgcgatct tgctcgcgaa ggtaatgaaa 180
 ttatccgagc agcttgcaaa tggagtcctg aactagccgc agcttgtgaa gtatggaagg 240
 cgatcaaatt cgagtccgag ccggtagata ctattgataa gtagataaaa ctaaagataa 300
 agaagagaag gtataaat 318

<210> 605
 <211> 333
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013g03b1
 <400> 605
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 tcaccgaggc cgagagcaac atgaacgacc tggtcgccga gtaccagcag taccaggacg 120

ccaccgccga cgaggaggag gagctgtacg aggacgagga cgacgccgac ctccaggagt 180
 aggggccagc gaggtctgtt ccgtggatct tccttgatcg ttgcccgggg ctatttctga 240
 tggctccatg ttgctactag tagtgtgtgt gtttcgcgct tgctggcccc cgtcgtcttc 300
 ggggtgtcgt ggactgggtg cttgtgtagt ttg 333

<210> 606
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013g04b1
 <400> 606

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 ttcgtgagat ccgcaagtac caaaagagca cggagctgct catcaggaag cttccattcc 120
 agaggcttgt tagggagatt gcccaggact tcaagactga cctccgcttc cagagccatg 180
 cggtgctggc ccttcaggag gctgcagagg cctacctggt cggctctcttc gaggacacca 240
 acctgtgcgc catccatgcc aagcgggtga ccatcatgcc caaggacatt cagctggcta 300
 ggaggatccg tggcgagagg gcttaagggt ctgtgcttgc cttgcctgtg ggaatcgctc 360
 tgggtgggcat ctgtgtctgc ttttgctgct gaacacttat c 401

<210> 607
 <211> 359
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013g05b1
 <400> 607

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 cgcagagcgc acgggacaag gctgccatgg cggaagacgc ggggccgttg gtgggaggca 120
 tcaaggactc gccgatgggc caggagaacg acctcgacgt catcgcgctc gcccgcttcg 180
 ccgtctccga gcacaacaac aaggccaatg ccctgctgga gttcgagaat gtggtgaagc 240
 tgaagaagca aactgttgct ggcacgatgc actacattac aattcgggtc actgaagggtg 300
 gggccaagaa gctctatgaa gctaagggtg gggagaaacc atgggagAAC ttttaagcag 359

<210> 608
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013g06b1

<400> 608

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 atcaaaccta ccggagatga agttcttctc ggcgttcgac ccgtggccgg tgttcttccg 120
 ccgggagtg ggccgcacct ggcccttctc cgccggcttc gccgtcacgg gggccctcat 180
 caccaagatg accgccggct tcaccgagga ggacctcaag aactccaagt tcatccaggc 240
 gcacaagaag aagtagtcgc cgcccgcccg gcccgctccg cgccagggtca caggggcagc 300
 agctgagtaa ccagcatgtg tccttgatgc ggggagccag tcctcacct cactattgtg 360
 attgagcttt tatgtttttt ttttcaaata caactgcatg cattttt 407

<210> 609
 <211> 376
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013g08b1

<400> 609

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 ggatgtcttg ctgcggagga aactgaggag gcagcaccgg ctgcacgtgc ggcaacggct 120
 gcggtggatg caacatgtac ccggaggccg aggccggcgg ggccaccctc cttgtctgcg 180
 ccaccgacac ccacaaggcg agtccccgcg ggatggagat ggcggacgaa aacggcggat 240
 gcggctgcaa ccagtgaag tgcggcacca gctgaggctg ctctgctgc agctgctaga 300
 tcatcgatca tcgaccatgc atgcaccgtg ccgggctgtc atcatcgagc atatcgatct 360
 actactacca taccat 376

<210> 610
 <211> 325
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013g09b1

<400> 610

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gccgcaccaa gctcgggttc tagatccggc ccggccgacc gccgcgtggg ggagccatgg 120
ctcaagagtt atctgcattt tgttttatgg acgtttcagt gtttgttatg caagctagga 180
agtgatccca ggatgtctct gttatcaatt tcttcgtggt atgaggattg cttgtaccct 240
gggtgtactga tgttaccgtg ctgtgccaaag taaagaacct ttgtataat gtcacccttg 300
tttaaaaaaa aaaaaaaaaa taaaa 325

<210> 611

<211> 201

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013g10b1

<400> 611

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atgggtacgt ttgtagggtt tgtcccgctc ctcaaccgtt ccagatgca atgggttcga 120
gagaagtgag aatatttcaa ccccgaaacac atgtcctggt taatttacag cccctcact 180
tgatctaaag gtggttggtg c 201

<210> 612

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013g12b1

<400> 612

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cgtgggcatc aacaagggcc acgtcgtcac caagcgcgag ctgccgccac gcccgctccga 120
ccgcaagggg aaaggtacca agaggggtgca ttttgtcagg aacttgatta gggaggttgc 180
tggattcgct ccctatgaga aacgtatcac tgagcttctt aaggttggaaggaggacaagcg 240
cgcactcaag gtcgccaaga gaaagcttgg tactcacaag agagctaaga agaagagaga 300

ggagatgtca agtgtcctta ggaagatgag gtctgctggt ggtggtggtg ctggtgacaa 360
gaagaaatag agc 373

<210> 613
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013h01b1

<400> 613

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gcggccggcc ccgccgtctg gacgtcgtg tcggacgccg tcatgggcca cggcgccgac 180
cagccacccc gccgctggat cctccttccc cggccggcgc cggccatggc gaccaccacg 240
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ctagcccggg cagcgtcgt accctgcac gaccagatcc actcgac 347

<210> 614
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013h05b1

<400> 614

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tgccgggggtc tccctcgccg agtccggcgg cttegtcaag gcgcctggag gcgcgcccgc 180
caacgttggg tgcgccatct acaagctcgg aggtcctct gccttcacg gaaagtttgg 240
cgatgacgag ttcggccaca tgctggtgga gatcctga 278

<210> 615
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013h07b1

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ccaacagcat ctccatctga ggacctccat ctctgcttgc ttgcttgctt gcaccggata 180
ctagctacta gctactgtgg gtgttctgcc ggtgcatatg cttgccatga tctcaataat 240
aataaggcaa taatgcgtgc gtgcncg 267

<210> 618
<211> 367
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189013h10b1
<400> 618

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gatgatcccg gccaaagtga accccagcaa ggagcgtgag ttccctgggc aggtgctccg 120
ctacgaggac aacttcgacg ccaccagcaa cctctccgtt ataatacaacc ccactaccaa 180
gaagaccatc accgactacg gttcccctga ggagttcctc tcccagggtcg gcttctctct 240
cggccagcag tcctacggtg gcaagaccga ctccgagggt gggttcgagt cagacgctgt 300
ggcgacggcg aacgtgctgg agagctcggc gccggtgggtg gacggtaagc agtactacag 360
cataacg 367

<210> 619
<211> 268
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189013h11b1
<400> 619

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aagtggatat gaggaattcc ctgctgatcc aataactcaa gttccagctt aagtgttaatt 120
gtaagttggt tagttacaaa tgcttggtat tacattagag tgcaagagca ttttccccac 180
tggtccccaa gtgaggctct tccccaggtt aatgtactcg aaatgctgcc attcgittgag 240
tggttggttc catccttttg tttattcc 268

<210> 620
 <211> 353
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189013h12b1

 <400> 620

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 tcatccgatc ccaaattccg aacccacacc gtcccaatcg tccgcgccga ccccgatgat 120
 ccctaagatc aagacaatcc ccggcccggc cagccccgcg cgccgcccc tctcgcccg 180
 gcgaagatgc acctgtggcc gtcgtccgg atccgggact cgttcaagca cgcctacctg 240
 gagaagcttg agttcaacct cgcccacaag aagcgcgcgc aggggcagg gcaagggcg 300
 cagggccagg acggggacga ggcgcctctg ctcgagggcc gctcgctcgc gat 353

<210> 621
 <211> 130
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189001a03b1

 <400> 621

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 cttcggtgga 130

<210> 622
 <211> 410
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189001a04b1

 <400> 622

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 aaagcaggct gactacttga tccgctccaa gtgggtaccc tgccctcagt tcagcaaggt 120
 tggctttgtc ttccgtgagc acaacagctc ccccggttac tacgacggct gatactggac 180

aatgtggaag ctgcctatgt tcgggtgcac cgacgccaca caggtgctca acgaggtgga 240
ggaggttaag aaggagtacc ctgacgccta tgtccgcgtc atcggcttcg acaacatgcg 300
ccaagtgcaa tgcgtcagct tcattgcctt cagggcacca ggttgcgagg aatctggcaa 360
ggcctaaagt gcaagttgaa ataactgata tacatgtcat gttagttcac 410

<210> 623
<211> 252
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a06b1

<400> 623

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attcaaacc caactgtctg gccgtcctgc ctcacgcctt gcataatctg tagcaggatt 120
gggaagtgta tagtggagca agttgggtgt cgacgtgtgt gtgaaggatga gagacttttt 180
atgtgaagaa atgtaatgct tgccagatgt tgtaaaactt caaactga aatgaagggg 240
ttgaatttag ca 252

<210> 624
<211> 500
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a07b1

<400> 624

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gtggccgccg catgcccgcg ctgcttctc tacgtgctca tcgcccggag cgacccccgc 120
tgcccgcgct gcgagtcgca cgtgccgcca cccccggccc cggcgcccaa gaagaagccg 180
cggatcgacc tcaacgtcgg ctctctcgga acctagccat gccaagccaa gaagaagtag 240
gtcaagatgg ttgtcgtccg tcctcgtcct cgtcctcgtc ctcggcgcggt taggtaggca 300
gcaggcctcc ggtgctcgga ttggccacga cgacgccatt gtttttctga tgccaccgac 360
ggattccggt acatagggga ggcgctccag atttttgctt gtccatttcc aagtatggcc 420
ggccgtccgt ccgtccgtcc ccgattctgt catgtcagat caatcaaaca ctcgacagaa 480

catgaatgaa tgaaactact

500

<210> 625
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a09b1

<400> 625

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tttttctgtt tcctcttatt atggctgtga ttgattaatg gacaagtaat gttcagttgt 120
cacagagtac tagcttatac gggagcaacg tttgccctag ttttgtaata atggtatata 180
tcaactcttg acgttctgtc 200

<210> 626
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a10b1

<400> 626

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gtccaacaat attgttttgc gattgagatt aaatttttct cgcataacaa tattgatttg 180
cgattgagaa aaaataatgt tttcctctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaac aaaaagggg 319

<210> 627
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a11b1

<400> 627

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gagaacatca acaacaagct gcagctggtg atgaagagcg gcaagtacac gctcggctac 120
aagaccgtcc tcaagacgct ccgcagctcc aaggggaagc tgataatcct cgcaaacaac 180
tgccctcccc ttaggaagtc agagattgag tactacgcta tgttggcgaa aattagcgtg 240
caccatttcc atggaaacaa tgttgatctt ggaactgcct gcggcaagta ctaccgggtg 300
tgctgcctca gcacacctga ccctggtgac tcggacatca tcagcaccac caccaccacc 360
cagtgaagag aagagaagag agctctccac ctattttatt tagtcgagtt gtaggggt 417

<210> 628
<211> 487
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189001a12b1
<400> 628

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caggactttc tagagggcga ggatggtgag ctttcatggt ttaatgctgg cgtgcggggt 180
ggagtcggga ttggcctcgg catatgcgtg ggcgtcgggt tgggtgtcgg cctgctggtc 240
cggacatacc aaggcaccag caggaacttc aggcggcgac tgccctgatg gccaacgctt 300
cccacaagta tataggaaac tgactgccca tcttcctgcc catgctagtg atagatgagc 360
gaggccttgt gttctccct cctgcagctt gtgtgcactg cgaaccattt ttgtcccttt 420
gaggtatgta aatgcgagta tgtatatgta tagtaaaaaa ataaataaag agtcgagtcg 480
ggtcgag 487

<210> 629
<211> 189
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189001b02b1
<400> 629

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ggagccggac aagaagacgc tcgagaagat tggggcgatc ccggccgtcg aggagtttgt 120

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<400> 632

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caccaagcct gacggcctgc tcacgcccac agtcaatggc ttcggcgctg tcatggagac 180
catctacatc gtccctcttc ttgtctacgc ggccgatcat gccaaaaggg ttaaaaccac 240
aaagtgtgtg gcagctttgg acattggatt ttttgggggc gtgttcgca ccacaacatt 300
cgccattcgt gggcttgaca tgaaaatcgt ggtcattgga ttgatatgtg cttgccttag 360
cgtgttcattg tatgggtccc cactcgctgc cgtgagaagg gtgatgcct cgaggagcgt 420
ggagtacatg cccttc 436

<210> 633

<211> 334

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001b08b1

<400> 633

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gcagcggctt ggggtctatg ggcgtaggcc cgggcaaagt aaccgtctct ccagccaagt 120
gaccatgacg gcatgtactc gcatgaaacg caaaggggcg tcgcatgcct cgacgggaat 180
aatatgtagc tcaaggacgg tccgatatat acaaaccctc ccgtgccctc ccttcctcaa 240
gacctataag aagcggggaa ccttgccgca atggggcacg tgaaatgggg tagaaacgac 300
atatgtatgt gtagatattt atgcatatac ccac 334

<210> 634

<211> 236

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001b09b1

<400> 634

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tccctccctt ctcccttggt caaattaaca gacgctttct gagctgtgtt aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggccgt tttaaa 236

<210> 635
 <211> 281
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001b10b1
 <400> 635

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 ctttgctaag tgtaataatc aaaacgacaa gtctttgctt aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggggggg c 281

<210> 636
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001b11b1
 <400> 636

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 tggatcaaat acacagataa agcaatttgc ttgtacaagg tttaaagctg aatttcctat 120
 ttttgataag gttgatgtca atggaccatt tacagcccct atttataagt ttctcaagtc 180
 gagtgctgga ggatttttgg gtgatatagt gatagtggaa ctttgagaag ttcttagtgg 240
 acaaaaatgg caaagtgttg gagagatatc caccaacaac ttcaccattc caaattgaga 300
 aggacatcca gaaactcact gcggcataag tgcttttgag tccgggttca gttaagcact 360
 cctgtatata ttgccttttt tttt 384

<210> 637
 <211> 357
 <212> DNA
 <213> Triticum aestivum

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 gggctggatc atatgaaatc aggtgttagt gaccaagaaa aatggcgtgg gctcattatt 360
 tcgtggattt gcagagctct ttttgtactc atcatgattg atcagatggc acgtaaatta 420
 tgaccaatt cgttgcaagt ttgaacttca gcagagggca gatcagagca ggcag 475

<210> 640
 <211> 182
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001c07b1

<400> 640

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 tatacatata cacatatatt atatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggggggc 180
 cg 182

<210> 641
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001c09b1

<400> 641

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 agcaactatt ccgccggcga tgtacagttc tacttctacc tgctgtgagg tgcatagtct 180
 ttggggtagt tctgggaaaa aaactcccc ttgtacatag taggggtggg aagacagcgg 240
 aggaaaatat gtattgttgt agtcagggtgt atcggtaaag aattccagat gtagccgtca 300
 ttatatatttg gccttgtaag ttaaataaga ggccttctca caaattctgt aacagtatca 360
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<210> 642
 <211> 440
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189001c10b1

<400> 642

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gatgtctggg cgtggcaagg gcggcaaggg gctcggcaag ggcggcgcca agcgccaccg  120
gaaggtgctc cgggacaaca tccagggcat caccaagccg gcgatccgga ggctggccag  180
gaggggcggt gtgaagcgca tctcggggct catctacgag gagaccgcg gcgtcctcaa  240
gatcttcctc gagaacgtca tccgcgacgc cgtcacctac accgagcacg cccgccgcaa  300
gaccgtcacc gccatggacg tcgtgtacgc cctcaagcgc cagggccgca ccctctacgg  360
cttcggcggc tgagcgccat cagcgcgctg ccgctggctg aactgctgt ttctgcttt  420
gctctgtagt cttactcccc                                     440
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<210> 643

<211> 483

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189001c11b1

<400> 643

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ggggcagcgt gacgaccacc agcaaggggc tcaagaagaa ggcgctcaag gcgctgccga  120
agctggcgta cgcgacgcgc gtggccgcgc ctgcggcggc gaggggcgcc gccgtcgcgc  180
gggtgcgcgc cccccccgc aacgccaacg cccacgcaa ccaatcctcg ccgtccggca  240
gcccggccca cgccctggcg gccttcggcg gggcgggcgg tgggcataac catggtacta  300
caactactac cgcagtgaag tttttcttct caagaaatgg aaaggagaat aattagagct  360
gtgaatgtga ctcttttctg caaccttttt cgccctgcac ttgcgctact gctccagtac  420
gtgtggatgt ggggaacatg acatcagatt tgtaaagagc gtgcgtggtc tcgtgtaaaa  480
ata                                                         483
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<210> 644

<211> 177

<212> DNA

<223> Clone ID: uC-tsflw189001d06b1

<400> 647

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 ggacttcgac ctgccccga agaaccgggt ctacctgcag ccgctgccac cggcggaggc 240
 ggtggtcgcg gccaaaggag cgggtccagga catgctcaac ctcaagccgc tcatggacaa 300
 gaagcaatgg ccgtacgtta tgaacgacct ccgtctcagg gcctcctacc tgcgctacga 360
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<210> 648

<211> 479

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001d07b1

<400> 648

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 agtgggcaat gcaacatata attcctcagg tggttgagaa gataaacaac ccacattatc 240
 tgtatcgcat gaccatcctg caagctatct cattgctagc ccctgtcatg ggtgcagaaa 300
 taacatgccaa aaagctgctc cctgttgtca ttaattcctc gaaggacaga gtgccgaaca 360
 tcaaattcaa tggtgcgaaa gttctgcagt cgcttgtagc aatccttgat caatctgtcg 420
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<210> 649

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001d08b1

<400> 649

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cccgcgcct cctccccga ctacagccgc cgctctccgc agcccacccc gcccggtcg 180
ctgtcgaaga aggaatcatg ggatctcatt caggattcgg agtttgagat actcgacagc 240
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actacccttc acctggtttg taaatggcgg ccttacaggt ggtgccagtg atggttgaa 360
aagatcttgt cagtcagtca gtaataatat cgtgtgcata tatatgtcct ctcacccac 420
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<210> 650
<211> 303
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189001d09b1
<400> 650

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg 180
gggccctttt aggggaccaa agtttctctc ccggggctgg gaaggtaaaa tttttttttt 240
ggggcccca aaataaaata aaggggccgg gttttaaaaa cggggggagg ggaaaacccc 300
ggg 303

<210> 651
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189001d11b1
<400> 651

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ggtatcaatg aaaaggggtg tatctgtgga ctggactgca gaatgccaca tgagaagggg 180

aaagcctagc ctatcgaaga ctagcatctt ctggaaacca ccatcttgca ccaacaggag 240
ggagtcgctg agcataaagt aaagtagtag aagtgttata aacctcgggc agagatcctt 300
tctcgactcc ctacaagaca gcaatcccag agccatacta tccaggcttc atctccattt 360
ctcatatgca tttcacatct caggatatcca gttctagttg tatcgatcgg gat 413

<210> 652
<211> 54
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001d12b1

<400> 652

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<210> 653
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001e03b1

<400> 653

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gtaactcatg catgacaact ttcattgccc cgtgggttgc ttgattgaag acggcgaaga 180
aagtgcgaag aataagtata tacgtggcac ccggccggcc gcatatatgc atgtatacta 240
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gatgaaaact tcagaaccct gtatttgatg ctcaacatta ttgtgttact gcatgtaaaa 360
gatcatacat tgtattacta gagtggctat gcgtgatgat attttcccct t 411

<210> 654
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001e05b1

<400> 654

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 agctggcgta cgcggacgcg gtggccgcgg gtgcggcggt gaggggcgcc gccggcgcgc 180
 ggtgcgcgcg cttccgccac aacgccaaacg cccacgccaa ccaatcctcg acgtgcggca 240
 gcccgcccca cgccctggcg gccttcggcg ggggcggagg agggcataac catggtgcta 300
 caactactac cgcagtgaag tttttcttct caagaaatgg aaaggagaat aattagagct 360
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<210> 655
 <211> 351
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e08b1
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 gtgtaccaat aaatctgaat gaaatgtatg ttgtgcctgc acgtagaagt atccgcagca 300
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<210> 656
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e09b1
 <400> 656

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aggcggcgca cctggcgctc aaggccctcg gccggccgaa cggcatcgac gggacgctca 300
 agaacgtgac cccggcgctg caccggaga tgatcctggc ggcgaccaac aacggcgaca 360
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<210> 657
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e10b1
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 tccatggccc cattgctaaa cgtgcccctg ggcaggcgat cctggcttga ggcagttgaa 240
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<210> 658
 <211> 75
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e11b1
 <400> 658

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 gctatttcgg gacct 75

<210> 659
 <211> 72
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e12b1
 <400> 659

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cccacgcgtt cg 72

<210> 660
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f04b1

<400> 660

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cgacggcacg ctgcccgggtg actttgggtt cgaccccttg gggctgtccg acccgagggg 360
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<210> 661
<211> 69
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f05b1

<400> 661

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tatgtatgg 69

<210> 662
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f07b1

<400> 662

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atcgcgcagg ctatatatgc agctgatcac

390

<210> 665
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f10b1

<400> 665

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at ttgttttct aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggccgttta aaagaaacaa acttaattgc 240
ccggg 245

<210> 666
<211> 167
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f11b1

<400> 666

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ttagaagctt gtggacaagc tagacacaaa gggcgcgatc ttgttcgcga aggtaatgaa 120
attatgcgag cagcttgcaa atggagtcct gaactagcct gagcttg 167

<210> 667
<211> 170
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f12b1

<400> 667

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tggggaatgg tagcgagact ggtgttgata ttcgtcgtcc tgtaataacc ttcagaatgc 120
ttgctgctcc tgacggcctt cttcaatgtc actgtgcttg tttttgcttg 170

<210> 668
 <211> 194
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001g03b1

<400> 668

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 tcccggctctg ctgaccaggg tgggtggacaa ggtcttccgc ttcgttcgcc tcgccgagtt 180
 cgagatcctc ttg 194

<210> 669
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001g05b1

<400> 669

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 aatgaacgac cttgctgctt catccaaacc ccgggacaac agggacgtgg ccaactgcgt 120
 ggagtgtctac gccaatgagc acaaggtcac ggaggaggtc gcatttgctg ccatcgactc 180
 gatgatagaa gatgagtgga agaccatcaa ccaagctcga ttcaaactg gtcgtgagct 240
 gctgcctgcg gtgcaacggt tcatcaactt cactctcagc gggccgggtgt actacggtga 300
 taggaaagat gctttcacct tcagctcgta tcttgaagac atcatcaaga gcctctttgt 360
 caatcccatc cccatctagc aactactctg tgtacctcat gcaggcatgc a 411

<210> 670
 <211> 449
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001g06b1

<400> 670

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 tgccagccaa cgggtggcaa ggccaggcta accgagggtt gtccttccg ccgcaagggc 300
 gactaaacct ctgaaggaag ccaagacgtt gttgaacttt gagttattcc aggggtgtag 360
 tctgaagatt ttgcaatgtc ggcaaattga acccatcttt ggcaatatga tatctagctt 420
 gagtattatt atgatgacca 440

<210> 673
 <211> 266
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001g11b1
 <400> 673

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 cgggggtgcg gcccggcgtt ggcgtcgacg gtggggctct cgctgcgttg ggcgctgcag 120
 cggtcgttct ttttgccgcc cttgacgggg agggcgtagt tcgtgcgcgc gctgcgggcc 180
 gtggtcgcgg acgcgccccca ccgggggctg gagctctggc cggaggggag gcaggcgggtg 240
 ctgctggagg ccgtgatcgg gggaga 266

<210> 674
 <211> 119
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001g12b1
 <400> 674

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 cagagcaccc ttcggacgca cggcggcgat ggccgaggcg gtgcaggteg gcgggctgc 119

<210> 675
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001h03b1
 <400> 675

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 tcctggtaca tttgatgtat tagtgatgcc aaatctgtat ggtgacatta ttagtgatct 120
 atgtgctggt ttgatcggag gattgggctt aactcccagc tgcaacattg gtgaagggtg 180
 catttgtctg gcagaggctg ttcattgggtc tgcacctgat atctctggca agaaccttgc 240
 aaaccaact gctcttatgt tgagtgtgt tatgatgttg cgccacttgc aattcaatga 300
 ccaagcagac cggatccaca atgccattct ccagacaatt gccgagggga agtacagaac 360
 cgctgatctt ggtgggaagt catcaacatc agactacaca aaagcagt 408

<210> 676
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001h06b1
 <400> 676

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 caccgcccgt agctctcgcc tcacgtcccg cggaaccgcc ggtagctctc gcctgccgct 180
 gatacaatgg ccaacgccgc ggtcgacccc gagcgcaaaa ggtcgcggtt gacgtcgctc 240
 atgtcgteca tgtcgtcctt ggacaccatt gtccgtctcc cgccctcgcc gatgttgacg 300
 tccccgacgc gcgccccgtt gggacacgcg ctggaggagc ctaccgcgcg gcacaggccg 360
 gcgcggagat c 371

<210> 677
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001h07b1
 <400> 677

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 tatggctggg attggtccta tcaggcagga ctgggagccg atagtgggtg ggaagaaggc 120
 gcagaacgcc gccgacaaga aggacgaaaa ggccgtcaac gctgcccgcc gctccggcgc 180

cgagatcgac accaccaaga agtacaacgc tggaacgaac aaggctgcat ctagcggaac 240
 ttccctcaac accaagcggc tgcagcagc cacggagaac ctttcccatg agcgtgtttc 300
 aagtgacctg aagaaaaacc ttatgcaagc aagactggat aagaagatga cccaggcaca 360
 acttgctcag atgatcaatg agaagccaca ggtgat 396

<210> 678
 <211> 228
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001h09b1

<400> 678

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 ctaagaatat gtgtatgtcc atgttcatgt accaacatgg ctcgagaaag catgctcgta 120
 tgagaatgct gtcggtggtc atgtatatga acggacgcat aatattatac aatatgtcga 180
 ctatatacgt tttaatgggc accaatggat aaaaaggacc aattttta 228

<210> 679
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014a05b1

<400> 679

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 tgccgcgcca agggcgggcg gccgggggtc aagggtggcg tgggtgggcg gcccgggggg 120
 atcggccagt cgctgtcgct gctcatgaag atgaaccgc tcgtctccgt gctccacctc 180
 tacgacgtcg tcaacacgcc tggggtcacc gccgacgtca gccacatgga caccagcgcc 240
 gtggtgcgcg gcttcattgg ccaacaacag cttgaggcag cacttacagg aatggatctt 300
 gtcacatcc ctgccggcct cccaagaaaa ccaggaatga caagggatga tctgttcaac 360
 aaaaatgctg ggatcggttc ctcgattt 388

<210> 680
 <211> 394
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014a08b1

<400> 680

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cgctcgtgccg ctgcacaccc acccgggccgc ctctgagctc ctcttcgtca ccgagggcac 120

catcctggcg ggcttcatca gctcctctc caacaccggtg tacaccaaga cgctctacaa 180

gggcgacatc atgggtgttcc cccagggcct gctccactac cagtacaacg gcggcgagctc 240

gccggcggtg gcgctcggtg cggttcagcgg ccccaacccc ggctgcaga tcaccgacta 300

cgcgctcttc gccacaacc tgccgtccgc cgctggtgag aaggcacct tcttggacga 360

cgcgcgagtg aagaagctca agtccgtgct cggc 394

<210> 681

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014a10b1

<400> 681

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gcagacgtac accgtccgct ccgtgcggcc ggtggagggg gggcctgtct tcgtggcggtg 120

ccacgacgag gcctaccggt acaccgtgta ccggtgccac accactggcc cgtccagggc 180

gtacatggtg gacatggagg gcgcgcgcgg cggcgacgcg gtgaccatcg ccaccgtgtg 240

ccacaccgac acgttcctgt ggaacccgga gcacgtctcc ttcaagctcc tgggcaccaa 300

gcctggcggc acgccggtct gccacctcat gccgtacggg cacataatct gggccaagaa 360

cgtgaatcgc tcgccggcgt gagcgggccc ggcagctctg tggctctgcc ggaactaaga 420

tcgatgtact actactacta tct 443

<210> 682

<211> 357

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014b01b1

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189014c02b1
 <400> 689
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 ctcgaaccct tttagcagca ctgtggaatc gtattgtggt tttctgattc tctgttcctt 180
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 atgtcctttg tcgagtcca 259

<210> 690
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189014c05b1
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 gcgatcagcc tcaagctgat catcacgctg gtcgccgcc ctgcgctggc gctggcgacc 120
 aagagggcaa ccgagggcgt ccccggcgtc ggcaaggtag tgcacaaggc gcccaatgcc 180
 atctatgccg ccgccatcac catggctgcc gtgctcatcc agagatccgc cgagggcgctc 240
 gagtagaagc ggcacgcgc cgtgaactgt agatgcacca ggcaaccagg gaggggtgtaa 300
 atgtgctgtg atttgccgtg tgaaggggtga tgccctgtgg gacttatagt tttctgtaat 360
 atcttctgt ctgtgcttct tgggtgttgc agcctggtgt gattcaaaaa gacagtattc 420
 gctgcttggt gacatgat 438

<210> 691
 <211> 187
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189014c08b1
 <400> 691
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tgtgtgaccc gccatacta gttgtttaaa ttctgaaata aaataaaata aagttgtatc 120
aagacaatgt tcatattggc attgtgtgga tgctgatctg attgccatgc ttgcaagttc 180
ataagtt 187

<210> 692
<211> 75
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189014c09b1
<400> 692

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aaacaaaagg cggcc 75

<210> 693
<211> 234
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189014d01b1
<400> 693

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aatacatgca tccggtctct ctcaaaaaaa aaaaaaaaaa aaaaaaaagac aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggggg gccc 234

<210> 694
<211> 340
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189014d02b1
<400> 694

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tcgtgtcctt ccgctcgcgc cgcgcgcgc catcgccata tccgcgcgcg agcagccgga 120
tccgtacccc agaccaccaa ccaagagccg cctcttgccg gtcctacggg cgagaggagg 180

CCDS: 363636

acgaccgaga ggagcgccca ttgatccgcc gcctgggccg ccttggagca cgccctgcct 240
ccggccgcca cctctccgtc agcctcgcgc tactccgaca tgatccgtct gccccaccgc 300
cggatccgcc gccagacca ccaaccaagc atcggccctt 340

<210> 695
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014d03b1

<400> 695

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taggccggcg gcgaggagga ggagcgccac cggtgccggt ggcagaagga ttgtgggtgc 180
cggcgtccgg gcatcggccg cggggcgccg ggaggcggac tacagctcca acgtctcgg 240
gttccccatg gaggcctgcg acctggtcgg cggcgaggcg tgcgacgcgc agatgtaccc 300
ggagacgaag ctcggcgccc gcaccggc 328

<210> 696
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014d04b1

<400> 696

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cctggagacc ctggtggccg ccggcggcaa gctgctgacc cccgccgagg tggccgcaa 180
gctcccgtcc acggcgaacc ccgccgtggc ggacatggtg gaccgcatgc tccggctgct 240
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gcggtacggc gccgcgcccg tgtgcaagtt cctcaccccc aacgaggacg gcgtctccat 360
ggcggcgctc gcgctcatga accaggacaa ggtcctcatg gagagctggt actacctg 418

<210> 697
 <211> 358
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014d05b1

<400> 697

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catctgcaaa agttttggct acaaccgga acaagcctac tgcaatcccg atcccactcc  180
gaggtgctgc tgcatttatt aagcgcagga aataacaatg ccaactggagt ggcagatgat  240
ggatgacaaa gctagcaaac tcacttttat gtgtccattt cgacttatgt aaaaatcgga  300
acagatcatg gtccaggcct gtccgtcaat taataaagat tagaaaaagt ttcttttt  358

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<210> 698
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014d06b1

<400> 698

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tccaacagcg gcggcgctg ggacaacgcc aagaagtaca tcgaggccgg cgcgtcggcg  180
gaggcgcggg cgctggggcc caaggggtcg gacgcgcaca aggcggcggt catcggcgac  240
accatcggcg acccgctcaa ggacacgtcc ggcccgtcg tcaacatcct catcaagctc  300
atggccgtcg aggcgtcgt cttegcgcca ttcttcgccg cgcacggcgg cctcatcttc  360
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<210> 699
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
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<400> 699

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gtgatacaaa agtacttgct tttgaagctg gacgcaaagg caaaatccga gttaacacca 240
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<210> 700

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014d09b1

<400> 700

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gcgttcgggc tggccagcat tgagatcgtg ctggccgtgc tgctctacca cttcgactgg 180
gagctcccg acgggggtggc cccgagcgag ctggacatga ctgaggagat gggcatcacc 240
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ttttcgaaaa ggagggttta ctccgatctc ggctctctgc ataataaaca tgtgccgcat 360
agttgccttg caccgtcaat ggtgacgggt ttgcccggtg tactacctgt ttatcatgac 420
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<210> 701

<211> 363

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014e01b1

<400> 701

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cgccgtcggc cgcgccggca actacaccgt gcacggcatc acggagagcc cggggggcat 180
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aaa 363

<210> 702
<211> 353
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189014e02b1
<400> 702

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gctgcaagag caccctagga agaaactgct acaacctttg ccgcgcccgt ggtgctcaga 180
agttatgcgc aaacgtttgc aggtgtaaac tcacaagtgg cctaagctgc cctaaggact 240
tccttaaatt ggtccttgag tccaactcag atgaaccaga caccatggag tactgcaact 300
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<210> 703
<211> 174
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189014e03b1
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ctaacattgt gataatatca gtctgggtaa tgtagatta agctgttgtc gcc 174

<210> 704

<211> 245
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189014e04b1

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 atcaatgaag tgctgggtcc ttctgggccc ttgtagtggt ccaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaccaggag taaaaaaaaa aaaaaaaaaa aaaaaaaagg 240
 ggggc 245

<210> 705
 <211> 307
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189014e05b1

 <400> 705

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 ctgtaccgtg tgggtgtgtaa ggcgtcgtct tgtgttggtga tgcgcctttt cctactgttc 180
 tagttcccgct cctgatgtgc cttcctcgtc ttatctagaa ttagaatctc aaattttctg 240
 tctatgtatt tgtatctgta tcaactctatg tgtggtgcca gctcttgata ttttctgttt 300
 gttcttc 307

<210> 706
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189014e06b1

 <400> 706

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gagaacctgc agagccatga taacaatgaa atctatgaga aggctgtgaa gattctcgag 180
gcttactgga tggaggagga agatgatgcg atgggggcaa ctatggaagc tcccacaggt 240
gttgcccttg actttggcca aggtggcaac cctgatctga acttgggctg aatacagatt 300
tgaccaatgg tggtaattcc cttgtcgctg cagttgtcac catttggctt agtcggtgtg 360
tggggtaagg tcatggttgt ggtgggtcca ataagctgaa gattttcaag gaagcaactg 420
gtcctgggta 430

<210> 707
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014e07b1

<400> 707

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cctctccctc cctccacct cgcgtcccca cccgccccct ctctgcgcc tccccaccac 120
ccgcccgcgc gctcgctcg tctcttctgc ctccggggcc gacgcgcgc agccggctct 180
cgaggcgag ggcctgccc ccgacgacgc ccccgaggag gtgctcgcg ctgaggccga 240
ggaggacgc ctctccgggc tggcgctgcg caagtacgtg aagcagcggc tgcccggggg 300
attcgccgc cagcggatca ccgccacggg ccgccggaag atggcgctcc cccgcgtcgt 360
gtccaggag ggcaccggga ag 382

<210> 708
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014e09b1

<400> 708

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tcatccaaag cgatctgctt gtttagtcag tctcgcgctt tacttatcgt tggtagcat 120
tttggttag gtgtacaaat tagtcggtat gcaacagagc atgtgctggg cttggtcaga 180
tatggtgctg agctgcttgg ttgccagggt tggcaggtta ttgccttcct tgcggcagtt 240

cgtagcccg caacgtatga tcatcatgga gtaggagaag aattaaagag acagtatttg 300
 tggtagtcta gccattgttg cttgctgctg gatgtttttt cttttcagtt ctaactgcct 360
 gatactttga tatgcatcgg ataattatct g 391

<210> 709
 <211> 348
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014f03b1

<400> 709

ttecgacta cgcgtccgcc cacgcgnccg cccacgcgtg cgatcagcgc ccctccgtcc 60
 ctccctcctc ctggcgcgctc gtgatccatc cagcccaggg gcgagaagct agttagcggg 120
 tgattaaggt cgccatgtcg gactccgagg accaccactt cgagtccaag gccgatgcgg 180
 gggcgctcaa gaccttcctt atgcaggccg gcgccatccg gaagggcggc tacctcgtca 240
 tcaagaaccg cccctgcaag gtgggtggagg tttctacctc gaagactgga aagcacggtc 300
 atgctaaatg ccactttggt gccttagata tattcaatgg taaaaagc 348

<210> 710
 <211> 339
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014f04b1

<400> 710

gatgatcccc agcaangnng agctcgacag ctggaaggtt tctggcgatg tctcctttgg 60
 ctctggagcc gcgctcaagg gcaacgtgac catcgagcc aaggctggag tcaagttgga 120
 gatcccagac ggagctgtgc tcgagaacaa ggacatcaac ggccccgagg atctttgagt 180
 gacgcctgct gcatcgccag tcgcgttccc agaaaccttc ctgtcctcct tcgctgagtt 240
 aacagtcatg taattttcgc gtgcattctg ctggggtggt gtccctgggat agccccctta 300
 cataataaat tgaatccctt ctgtgctggt catctacac 339

<210> 711

<211> 354
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189014f06b1

 <400> 711

 ttctcgttat atgaaaacga aggcggggcca tataaaaaga tgatgaaatg ccgagccgcg 60
 gcgggtgact ggaccaatgg atggtcctgt gttgttaagc tgatggtact aacccgctca 120
 tcaaaggata atgacgaata tgcattgcgt catagcagct tgccggaccgg cgtcggctgg 180
 aaatgctgcc atgttgtctc ccatacatgt ctctctcttt ttggttgctg ggtaaggctg 240
 catgctgaat tgtgtctagt agtatgtgta aattcctggg gccgtctgag ccttgtacaa 300
 aaacgctctt gatagtgagt gttgtgcgat tctttttgta ctccagtggg tgat 354

<210> 712
 <211> 380
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189014f07b1

 <400> 712

 taccggttat tgctccgacc gataccggga gcatttcttc agaactctac cacgcgcgaa 60
 tcgccgcgga attttactga attaccagca ccagagcaga gatctcggtc ggctcggcgc 120
 caggggcaac ttccgccatg agcggccacga ggctcgtcctt ctccgggtcc aacggcaaga 180
 agaagcccg cgcattgcgc cggaaccct tcgactccga ctccgacgac gacggcggga 240
 tggtecagca gaggccgccc atgggggccc actccgtccc gacccccgcc gccgcgccgg 300
 tccccgccga cgagcggaac tccctcttcg tcggcgccgc cgcggcgggc cccgggcccgt 360
 ccgggttcgc gttctcgtcg 380

<210> 713
 <211> 449
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014f08b1

 <400> 713

nttttaccta ggcacatcc atggcgcgct tccttgtegc tctcctcgcc accaccctgg 60
 tcgcggttca ggctggaggg cagctgggcc acgcggcgcc ggcgacggcg gaggtgttct 120
 ggcgcgccgt gctgccacac tcgccattgc ccgacgcctt tctccgcctt ctcaaacaac 180
 ccgcagcagg tggtgaactg ctcacagaag ccaccagctt cgtgagggat gccgaggaca 240
 ggccccctt cgactaccgt gattacagcc gctcgccgcc cgatgatgaa ccgagcaaga 300
 gcaccggcgc cgctccggg gcgcgggact tcgactacga cgactacagc gggggcgaca 360
 agctccgtgg cgccgcctcc ggggcgcggg actttgacta cgacgactac agcggggccg 420
 acaagctccg tggcgccacc gatgaatac 449

<210> 714
 <211> 320
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014f09b1
 <400> 714

cgtactcgtg ggccngggcc accgncatcg ggtacaagca ccaggcagac cccgcgggtc 60
 ccaacgccgc cgacgcggtc tgcagcggcg tgggaatcct cggcatcgcc tgggcgttcg 120
 gcggcatgat cttcgtgctc gtctactgca ccgcgggtgt gtccggggga cacatcaacc 180
 cggcggtgac cttcgggctg ttcttggcgc gcaagggtgc cctgggtgcgc gcgctgctct 240
 acatcatcgc gcagtgcctg ggcgccatct gcggcgtggg gctcgtcaag gggttccaga 300
 gcgccttcta cgtgcgtac 320

<210> 715
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014g01b1
 <400> 715

cgttttacca cttcnttnc agcaggaggg cacttttaag tgtttatgca gacatgtctt 60
 tagcgtgcaa ggagtactat gatccaaacc gttcgtatgct ggagttgggt tttgctccag 120

cagaggaatg gatcggacgg agtgacaccg aaatcatcga agcaactatg ctagagctag 180
ccaagttggt tcctgatgaa atcgctgctg accagagtaa agcaaagatt cttaaatacc 240
atgttggtgaa gacaccgagg tccgtttaca agaccgtccc gaattgcgaa ccttgccgac 300
ctctgcaacg atcaccgatc gaaggggttt atctggccgg cgattacaca aagcagaaat 360
acttggtctc catggagggt gcgggtttgt caggaaagtt 400

<210> 716
<211> 286
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014g02b1

<400> 716

agtaaataca aaaacgaaga ggcgaacagc gcctatgagg atctcaacca gggcaagatc 60
gttgcccgag ctgtagttga aatcatgtag tgctgactgc tgacgagatg atcatgtggt 120
tgaaaatctg ggtcaaacaataaagaat ggcgcggcaa ctccgcgaac tcgggtttgtg 180
ttgcagcatg gtctcgctcc ctgattttgt ttggatgcaa aaaaatttgt tgattgaaag 240
attattgtgc tccaaaaaaaaa aaaaaaaaaat aaaactcgcc ctctat 286

<210> 717
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014g03b1

<400> 717

cgtacgcgtg ggcggacgcg tgggaggacg cgtgggattg ggttgactac atggagtcct 60
ctcgcttcag gggttctcac tgggaagtat agcaaaggga atatacccg tgaaagccgg 120
tttgccctag ataactacaa gaacctggca aacaggtctc tggttgacga cacgcttaga 180
aaagtgaacg ggctcaagcc aatcgcttcg gagcttgagg tctcgatggc gcagctgggt 240
atcgcttggt gcgcgtcgaa cccaacgtg tcgtctgtga tcaactggagc caccaaagag 300
agccagatcg tcgagaacat gaaggccct 329

<223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014g09b1

<400> 720

cctacgcgac cgcgacaaac aaagacaggc gcatttgaag tttgaancca aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggg 175

<210> 721
 <211> 143
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h01b1

<400> 721

cgtggccaag cccgccaaga gcaaggcaag cagggagagg aagagggcca ggagggaggc 60
 gagaacggca cagggcccga gggatcaggc accaacacca gcggctgcag cccccgagca 120
 ggcggcaccg gcgccaaga agg 143

<210> 722
 <211> 330
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h03b1

<400> 722

agtattcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcggtggcg gacgcgtggg 60
 cggacgcgtg gggctcgatc ctacctacgc tagcacacac tctgtctcac gctcgcgagc 120
 gaactagtcc aggaacaatg ggcgcgcccc agaaggtgct gatgctgtgc ggcgactaca 180
 tggaggacta cgaggcggcc gtgcccttct acgcgctggc cggcctgggc gtcgccgtcc 240
 actgcgccgc cccgggcaag gccccggcg acccctgcct caccgccgtg caccgacttcc 300
 tcggctacga gctctacacg gagctccccg 330

<210> 723
 <211> 130
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h05b1

<400> 723

cttcggtcc gccacgcga ccgaatcggt gtagtgatga caaataaagt ggtgtgcacc 60
atcatgtgtg accccgaacca gtgctagttc aagcttgga ataaaagaca aacaaagttc 120
ttgtttgctt 130

<210> 724

<211> 316

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h07b1

<400> 724

taccggctag taccagttcg atgacaagta cggcgccaac gtcgacggct acagcccaat 60
ctacacgccg gaggaatggg ctgaatctgg tgaccgctac gccggcgga cgaccgggct 120
tcttatctgg gccgtcacc tcgccggcct cctcgggcggc ggcgtcctcc tcgtctacaa 180
caccagcgct ctgcgggct aagagagcat ctacgtgtaa cacagggccg ggtctctgct 240
tgcatgcacg tctctgtaat ctacatagct acctcctgtg aatgtatgca atcaacgatg 300
caaagtaatt gatccg 316

<210> 725

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h08b1

<400> 725

gttcatgcta cccgaggcaa tcgcaatagg tatggtacct accgacacaa gaaaaaaca 60
cgggtatatt catctaacgg atccgggtgg tattggtgtg atccatgatt gcccgagag 120
aggattccat ccacataaag cccctctgga tggctcacca atctacgagc attgctccca 180
cgtgtacatg aatgctgata caaagtttga tatgattgac ctccgagaac agtgagaggt 240
atcagtttca ttctgtcata gtttgccggc tgtacttgcg gcagttgagc aaattgtctg 300
ccttgatttc tctagtgcgc tgaagaaatg cagatactga tttaagtgat tgtacatagc 360

tatttgtgtct atagagatat gattg

385

<210> 726
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h09b1

<400> 726

gataataaag cagaggagag gaagcggagg cgacgatgtc ggcgatgacg gcggcggtgc 60
ccttctggcg cgcggcgggg atgacctaca tcggctactc caacgtctgc gcggcgctgg 120
tgcgagagctg cctcaaggag cccttcaaga ccgaggtctc ctcccgcgag aaggtccact 180
tctccctctc caagtgggcc gacgagaagc agcagaagcc cactgtgcgc acagatgatg 240
aatgaagatc ggggtgccatg gtgattgatg ttttgagaag ttgttgagtc agggcttaag 300
aacttgagaa taaattcttg cggtgacaat ggatctattc cgatactatg ttgttatatt 360
tactaattgc tccttttcta cttgatgaac ctgaaccatg tgaaactcgt gtcttgtggg 420
gctcgagtga gcgtgttttt atgcgttata tcttccgatg cttt 464

<210> 727
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016a05b1

<400> 727

gtccgtcatc ctcggcgccc tcaccggcga gtggctcacc ggggtcacct ggcaggacgc 60
cggcaaggag gagctggtgg acgggccgtc gtacctgggg cagccgctgg cgttcacgct 120
caccacgctg atctggatcg aggtgctggt gatcgggtac atcaagttcc accgcaacgc 180
ggagctggac ccggagagga ggctctaccc cgggggctcc tacttcgacc cgctggggct 240
cgcggtggac ccggagaaga aggagactct gcaggtggcg gagatcaagc acgccccg 297

<210> 728
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016a07b1

<400> 728

tttcgctgta ctctcactct cctgccgcgg tgcgccgtac ctgctctcta gacaagatgt 60
cgtcagtcag tgccccgcgt cccgtggccg ctctccggcc agcggcgta gcgtcgagcc 120
cccggttcct gggcgactcc ggccgcgtcg gcctcgccaa gtccacacgc cgcgacgtcg 180
ccgtccaggc caaggggtcg tggctccccg gcctcccctc ccctgcctac ctcgacggca 240
gcttggcggg tgacaatggg ttcgaccgc tggcgctggc ggaggaccg gaggacctgc 300
gggtggttcgt gcaggcggag ctggtgaacg ggcgggtggc gatgctgggg gtggcggaga 360
tgctgatccc ggaggtgctg acc 383

<210> 729

<211> 308

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016a08b1

<400> 729

tttcgcctac tcgtacgcgc gaggcggcgg agcggcggac cagaatgctg gtccggagtt 60
tatcgatgct gggcacgata tgattctggc agcagatcat tcggcttcag atctgatccg 120
cggcatcgcg acggagtggg gggttgactt tgatgaggac ccggaagcaa tggttattga 180
ccacatcaat tatgcctcca gcgaggttga aggtgaccac accttgattg ctggcgatga 240
ccttattcag tcagatgtga tattgggatc caaaaagact gaggttctg ttctgttccg 300
agggattg 308

<210> 730

<211> 335

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016a09b1

<400> 730

tatcgattgg tcaaccatgt caaggcccga tccaggcaca cttattattg aaccactga 60
aagtgaagc aaggctgaac tagacaggtt ctgtgatgcc cttatctcca tcagagagga 120

aattgcagag gtagaaaatg gcaaagcaga tgcacacaac aatgtcctga agggcgctcc 180
tcacccaccc caactcctga tgggtgacgc atggactaag ccatactcta gggagtatgc 240
tgcgttcccc gccgcgtggc ttcgtggtgc caagttctgg ccaacaacat gtcgtgtgga 300
caacgtgtac ggggatcgca acctgatctg cactc 335

<210> 731
<211> 303
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189016a10b1
<400> 731

gtcgattgag caccacaacc tcgtattcag atttctagat agacaggatc agattaacca 60
gaagatgatg caggccaccg ttgccttgtc ggccgtgctg actgtcgccg taaggggcag 120
gccggcggcg aggaggagga ggcgccaccg ggccgccggc ggcagaagga tgccggggcg 180
tgccgttcgt gcatcgggcc cgcggggccc ggaggcggat tacagctcca gcgctctcgg 240
gttcccatg gaggcctgcg acctggtcgg cggcgaggcc tgcgacgcgc agatgtaccc 300
gga 303

<210> 732
<211> 122
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189016a11b1
<400> 732

cctacgcggc cgaaaaaaaa aaaaaaggga aaaaaaaaaa aaaaaaaacc aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaacc aaaaaaaaaa aaacaaaggg 120
gg 122

<210> 733
<211> 350
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations

<223> Clone ID: uC-tsflw189016b05b1

<400> 733

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attgaagggt gttttccttg agagtggaac cccagaggaa ttctcgcttc ttccaaagct 120
cgcgagatca cagcccattg tcgacaaagc taagctcaag agtgcgactt cagtcgaaga 180
tgcattagag atcgcgagaa gctctcttta gtctggctct ttgtttaact agttgtcaac 240
acatatggcc tcttctgttt gggactgcag cttattttga aaagtcagga ctacgatgac 300
aataatgcgg ccatagtatc cggttctatgc gngtttgta attttcctag 350

<210> 734

<211> 178

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016b06b1

<400> 734

cgtactcttt tgtggacacg cgccaggacg ccacaaagcg atcagacgca tactcgatca 60
cccgcaggag cgtgcacaaa ggcagcacca tgtatcgatc acaagggagg cccagctggg 120
ggcatgaatg gcaaggacgc agagctgacc actgatgcag ggtacccta cagaaacc 178

<210> 735

<211> 285

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016b07b1

<400> 735

cgtacgcttt tgtaaaaact ccgacgatcc accacaccct gcaatggcgt gcgctcacca 60
acgtgagcct gtctaccttc gcgcccacgg ccaggggcga cgtcctcgcg aggccgcagg 120
tgggcgccgc ccgcgtcacc ttcccagcgg cgcaccgcgg cagcggcgcc ctctcctgca 180
gggcggggcg gccggccacg cctgcgggca tctccgacaa gatgtcggac agcatcaagg 240
aggcccagga gacgtgctcg gaggacgccg ccagcgggga gtgcg 285

<210> 736

<211> 297
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsflw189016b09b1

 <400> 736

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 ggaaggaaag gagcttcctg gagtcgttgc acttgatgaa ggtgtcatga cgaggctcgg 120
 gaccgtatga ggctaagctt catttggtgc atcttaattc ctttcatgta ccgttccaaa 180
 cctgccatgt tgcctccct cttttgctcg tcttcgacca ctcgaaatgt aagagaccaa 240
 tgttttatag agaaatactg ggaactgttt gaataacacc cccagcaatt tgtgctc 297

<210> 737
 <211> 274
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsflw189016b10b1

 <400> 737

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 cctcttcgag gagggcctcg acaacgtcat caagaggcac acacgcctcg gcaccgcaac 120
 aaggctggcg gtggcggcgt ggggactcaa gaactgcacc gcgaaggagg agaacttcag 180
 cgacacggtc accgccgtcg tggcgccgcc gtacatcgac agtccgaga tcgtcaagca 240
 cgcggtggaag cgggtacaacc tcagcctcgg gctc 274

<210> 738
 <211> 312
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsflw189016b11b1

 <400> 738

 gcgcctacgc gttcgtccac gcgagcgaga gcaccgcggc gtctcgcccc aagagagcaa 60
 gccggccgcc ttatcgccct ccgccgcgac gttcatccc gtcaaggcca gctccggagg 120
 ccggcgccga cgaactcgtg ccggcgcaag cgtgccggcg gcgcctgccc gtctgtggag 180

gccggcagtg gataagtgcc cgtggtggcc gtggtggcag ggttcttttt gcaaaatacg 240
aaacgttatc tcaccaggac aaactttaaa ttggactgcg ggttgaatat taagaaatag 300
agggactttt ct 312

<210> 739
<211> 63
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189016b12b1
<400> 739

acacgccgac gccaaacacg ccgaccaatt aaaggctcgg gaggagcgac gaaggcccgc 60
cgc 63

<210> 740
<211> 320
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189016c04b1
<400> 740

gcgaatctat tttcctacat agtacagcca tggccccac cgtgatggcc tcgtcggcca 60
cctccgtcgc tcctttccag gggctcaagt ccaccgccgg cctccccgtc agccgccgct 120
ccaacggcgc tagcctcggc agcgtcagca acgggtggaag gatcagggtgc atgcagggtgt 180
ggcccatcga gggcatcaag aagttcgaga ccctgtctta cctgccaccg ctcagcacgg 240
aggccctcct caagcagggtg gactacctga tccgctccaa gtgggtgcct tgccttgagt 300
tcagcaaggt cgggttcac 320

<210> 741
<211> 188
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189016c05b1
<400> 741

ggtagattta gttgcactgc cctccaaact gcgcgtgcaa cgccagtgcc aagtgtgttc 60

cttttgggtg tgagtgcaca atatgcatat acgctaataa gcagagtaca cccctccaac 120
aaacagatgg atctagctga tgatgtacaa ggacatgttc cctgaaataa atgtgattga 180
gacatatg 188

<210> 742
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016c09b1

<400> 742

cgtagttctc tgctttgaca ttaaaaaatt taaattacaa gatgagccat atatattcag 60
gaaatggagc tgcagaataa caacttcttc ttgagggaaa aagtagctga gactgaaagg 120
gggcaacagc agacgttgaa catgatgggg gcggcttcga catcgaatga gtacgagcaa 180
aatatgatcc attgtgatcc gagaaccttc ctgcagttca acttcatgca gc 232

<210> 743
<211> 51
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016c11b1

<400> 743

cctgatattt ctaaacgacc acacactcct attggagatg atgtggaatg c 51

<210> 744
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016c12b1

<400> 744

gcgcttattt tttccctcac gccactactc cctcctctcc tcaatggcag atctgcctcc 60
gtccctcgcc accggcccct cctccccgcc tccgacccca ccccgctacg ggccgtcgac 120
cgcgacgccg gctgctaggg ggaaggactg gaataagggt cccgcggagc agctcgtgat 180
cgacttctgt gacccggagt tgcgtgagga cgccctacgc cagctctaca agaagcgaga 240

gatttttcaa gaccttgctc cactgctgtg gcactccttt ggcaccgttg ctgcactgct 300
ccaggagatt gtgtcaatct acccttcact ttcacctcct act 343

<210> 745
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016d04b1

<400> 745

gcgcataatc ttttctactc cggccatctc tccatcgacc accgtagtac caccctgca 60
ccccactcca acgatggcga cagcggcagc cggcggcggg aggggcaagc cgaagggcag 120
caagtcgggtg tcgcggtcgg tgaaggcggg cctgcagttc cccgtcggcc gcgtcgcccg 180
gcacctgaag gtcggccgct acgcaagcg cgtgggcgcc ggcgcccccg tctacctgtg 240
cgccgtctctc gactacctcg ccagcgaggc cctggagctg gccggcaacg cggcgcgcga 300
caacaagaag acccggatc 319

<210> 746
<211> 327
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016d05b1

<400> 746

cgtacgcgtt tgcggacgcg tggggtgatg aacgcaggcg agctcgggct gggcgcgctc 60
ggcgcgctcc tgcaggccgc cgtcccggcg ctggagtcct tcgcggggcc cgacggcgcg 120
ctgggccccg acgagctcgc cagggtgctg gggctcatgg gcaccgccag cgccgaggac 180
tgcgcggaga tcatcgctg catggacggg gacggcgacg gcgccgtcag cgtcaggag 240
ttcaagctca tggctgacct gctctaggct cgagctacgt acgtagtatt gagctagcta 300
gagggcgtgc atatatgcag ttatgta 327

<210> 747
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016d06b1

<400> 747

gataagactt ctaggaccgg aaacaagacc gtgccgaatt gcgaaccttg ccgaccactg 60
 caacgatcac cgatcgaagg gttctatctg gccggcgatt acacaaagca gaaatacttg 120
 gcttccatgg aggggtgcggg tttgtcagga aagttttgtg ctgagtcctat agtgcaggat 180
 tctaagatgc tgtcccgag gagccaggag agcctgcaat ccgaagcccc cgtggcttcc 240
 cagttgtagc tagctagcgc gattcaattg tttagcattt tctatgtgtc attgtcacat 300
 tgttgtagag tccaccagtg aattgagctg acaaccatac tggaaacaaa aggagatttg 360
 taaaacaaag aagaactttg cagaagggca aaagtataa agggatctta gatatc 416

<210> 748

<211> 221

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016d08b1

<400> 748

gcgcttatct ttttcacaaa accaatcctg ctctgcccc cgatcccaa gagcatcacc 60
 tgcaagcaat ggacgtttcg ggcaccggag ctggcgccaa gggcaagaag ggcgcgccg 120
 ggcgcaaggc cggcgcccc aggaagaagt cggtgacgcg gtccgtcaag gccgggctcc 180
 agttccccgt cggccgcac gggcgctacc tcaagaagg c 221

<210> 749

<211> 370

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016d09b1

<400> 749

tttcgcttgt gcggacgcga gggcgcgct gtggctgctc ccgctcacc acccatggcg 60
 acggctatga tggctgcagc caccacctcc tgctccccgc cccgagcgct cctcaagccc 120
 gcggcctcct ccagccccgc gccgcgcgc aggcgcagc cacggtcctt cctcaagcag 180
 ctcccggggc tcgccgcgac ggcggcgggc gcggccgctc cctacgtgcc tctcccggcg 240

tggccaagtg tgacccccgc cacggcaagt acatggcctg ctgtctcatg taccgtgggtg 240
atgtttgtgcc caaggatgtc aacgccgctg tggccacat caagacgaag cgcaccatcc 300
agttttgtgga ctggtgcccc actggtttca agtgtggtat caactaccag ccaccag 358

<210> 753
<211> 280
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016e07b1

<400> 753

gcgccctacgc tttctccac gcgtgcgact gaccacgcgc caccacgagc aacacccatg 60
gcgcgccaccg gcgccgcgc tgccctcttc gtgctcgtct gctgcctcct cgtcggctct 120
gtccccggcgc gcctccccgt cgagcttccg acgcaggtgg taccgaagc cgttgacctc 180
ctggccaccg ccgagccgct tctggccaag cagttggcgg ctgccgaggc ggccaaccgc 240
accaaagtcc actccatgat aacagaggaa gaggagatgg 280

<210> 754
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016e08b1

<400> 754

ggcgagtcac cttctcaacc gaagcagact ccggagagca ggcaaggcgg agaccgagat 60
ggcgcgccgc gtgccggcgg ctaccaaggc cggcgccggc gccgggaaga agaaggggtc 120
ggtcaccttc gtgatcgact gcaccaagcc cgtcgacgac aagatcatgg agatcgcgtc 180
gctcgagaag ttcttcgagg agcgcatcaa ggtcgccggc ggcaaggccg gcaacctcgg 240
ggactccgtc accgtcgccc gcgacaagag caaggtcacc gtcacctccg atggggcctt 300
ctccaagagg tacttgaagt acttgacaaa gaagtacctg aagaagcaca atgtgcgtga 360
ctggctccgg gtgatttcat ccaacaagga gcgcagtgtc tatgagctcc ggtacttcaa 420
ca 422

<210> 755

<211> 138
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsflw189016e09b1

 <400> 755

 cttagtttga tcatatcagt agaggaagta gcagcagtag catcggattc taataaccga 60
 gtgagtctgt atcgtggtgt cgaagatggt agtaattagt ttgattaacc tgtctaattg 120
 atgtaccatt tgcgaaaa 138

<210> 756
 <211> 280
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsflw189016e10b1

 <400> 756

 cctcnatatt atctggtgga ggcgctagct tggagctgat gtaaggaaag gagctgcctg 60
 gagtcgttgc acttgatgaa ggtgtcatga cgaggctcggg gaccgatga ggctaagctt 120
 cattttgtcg cgtctcaatt cctttcatgt accgttctaa acctgccatg ttgtcctccc 180
 tcctttgctc gtcttcaacc actcgaaatg taagagacca atgttttata gagaaatact 240
 gggagctggt tgaataaacac cccccagcaa tttgtgctca 280

<210> 757
 <211> 382
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsflw189016e11b1

 <400> 757

 ggtcattttt ttgggggttca catgccagga caataccaga atggatgtta caatcagctg 60
 gcgtatactg caggccaagg atcacaccag aactggcgtg gggcgcaata cacaccggc 120
 catcaggcga ggtattatag gaatggggtg actacaaggt acgagcctgt tgctggagga 180
 ctccagaatg gaccggcacg ggcacgggac tcgcggtcgc aaggctcctc aagccgtacg 240
 gaatggcgag gaagcagcca acatcagacc tgaccagaac tgtagtcgc agcaaagata 300

gcaatttgct gtttcattg gctgacaaaa tgtatcgatt tcgatttcat gatgtatgtc 360
atccttcata ctttagcttg tc 382

<210> 758
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016e12b1

<400> 758

agcgggtaac ttttcttcgg acaagattag tcagctgact gatattgtct acgtctgccg 60
ctctggatct gcagctgaca cgcaagttat ttcggattac gtgcgttatt ttctccacca 120
gcacacaatc cagcttgggc aaccagctac cgtgaaagtt gcatccaact tagttagggtt 180
attggcctat cagaacaaga gcatgttgca agctggaatg atagttggtg gatgggataa 240
atacgaggga ggccagattt actcgggtccc tcttggtgga acgattctga ggcaaccatt 300
cgcaattgga ggatccgggt ccagttacct gtatggattg atggatcatg aatggaaaga 360
gggtat 366

<210> 759
<211> 142
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f04b1

<400> 759

cgtttgcgcc accgacgagc gtttcgacga cgactacatc gaggccatga tcgccgccgc 60
cgacgccgac ctggacggct tcgtgcagta ccacgagttc gagggcctcc ttggccgcgc 120
agctaaggcg gtggcggaca gc 142

<210> 760
<211> 137
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f05b1

<400> 760

cttgacaaaa gcccatcttc ttctccttga aatctttttg ggttcacaga tttggaggat 60
gtcttgcaac tgtggatccg gttgcagctg cggctcagac tgcaagtgcg ggaagatgta 120
ccctgatctg acagagc 137

<210> 761
<211> 246
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f08b1

<400> 761

ggtgctggcc cggctcgttg ctcttggaag ccgttttctt tctggcggcg gcggccgtgt 60
cggaggccaa catcggcgag ttcgacgagt actggcagcg gcgccagctg gaggccagag 120
cccgcgcgga ggccacctac catcccaacc ccatcgaggt cgccaacagc ttgaaccgcg 180
ccgtccacag gaccgttcgg gaggagagcg gctcgaggag gaagttgctg ggactgcaca 240
agaagt 246

<210> 762
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f10b1

<400> 762

gctgaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaac aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaacg gggcg 95

<210> 763
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f12b1

<400> 763

ttcgcgctac tcgtccgatac agagcagatt aaggcagaga cacagagcag agcggataaa 60
ctcgagggag attcgatcat caccacacca accatgtcgt gctgcggagg caactgcggg 120

tgcggatccg gctgcaagtg cggcaacggc tgcggagggg gcaagatgta ccctgagatg 180
gacgaggggg tgaacaccac ctgcgagacc ctcatcatgg gcgtcgcccc ct 232

<210> 764
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016g04b1

<400> 764

tcggtttag cccgcgcgcc caagacagcg ccgggggtggc cgttcccgcc cccttcgccg 60
cgccgcgtgc ggccggccag gtgcgcgggg ttctgtgggc cggcgggtgga gtcggcgctcc 120
ccgggcgcca gggcggcgac gctcgcgagc agccgcggcg ggaccgactc gtcactggcc 180
atctgccggg tgctcaacgg catgtggcag accagcggcg ggtggggcct gatcgaccgc 240
gccgacgccg tcgacgccat gc 262

<210> 765
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016g07b1

<400> 765

gtcgattgca cgcgcgcgct cgccttcccc actacaggca cagccagcga gcgcactggg 60
ggtacaacga tggcgctggg ctctctctcc tccgccaccg ccgtcgcggc gtcctccagc 120
aatgggctgg ccggcgcccc gagctccttc cttggcgctg ccggcaaggc ggcggggtcg 180
cgcgcgctcg tcgccgtgcg cgccgcggcg cccgagaggc ccatctgggt ccccgggagc 240
accctccgc cgtggctcga cggcagcctt cccggagact tcggctttga cccctggggg 300
cttgatccg acccgagag c 321

<210> 766
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016g08b1

<400> 766
 ttttcggcctt gagcaaggta tccagatgct taagatatcc aaagagcatg tcagcaagac 60
 ctctattctg gaagactttg ccttctatga gaaccgccag aagttgatgc aggagaagag 120
 aataaaacaa cagcagatcc aaaagcaggt gtgggacagc agggctccga accctgttgc 180
 tggagagaaa caacaggaag tcgccaacgg gaagccaaag gtatctgtac cgaacggtgt 240
 caatggagag aaacagcagg atgccgtcaa tgggaagcca aagtcgcct 289

<210> 767
 <211> 300
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189016g09b1

<400> 767
 gatcctcggg gcgatgcagg ggataatccg cctaattggac ttacaagggtg cacattatga 60
 ggtcaaagct tatgaagatt acaaatttct aaactcctcc tatgttctctg tgctccgaca 120
 actggagtca gcaaactcctc aaaaattcta tttcgagaat aagcttgaga atgccaccaa 180
 agatgctagc aatatgaagt tcaggaatcc caagtatctt tctatgctta atcacttgcg 240
 attctacttg cctgagatgt acccgaagct gcagaaagat tcttttcttg gatgatgatg 300

<210> 768
 <211> 228
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189016g10b1

<400> 768
 ggtaattagg gcgcccttat gtgactacat ggtcaacgca tctgctgacg atgaagagat 60
 gaaactctat gtggaacagt gtggatgatgc ttgtgtcaat ttctgtaacg ctgatgctgg 120
 cctcacatcc cttgatgcgt aatgatgcgt atccatggtc tgagatttca cagggcaagg 180
 tcgtgtctca cctttgcgtt caataaaatt ggatcccatc gagagtat 228

<210> 769
 <211> 295

tcttcctgt caagtgcgta tgggtgcaat acctgtcact gatctctgaa agcaacggtg 180
 atgtagagcg ggtttgtcta catatgtgtt gaaatgtgca tcctttctca gattcatata 240
 ttaacaaaga atgtctgtca ataccatctg gtaaagattg ctactccctc tgatccatat 300
 tacttgtgat gactttctcat tatggctctg aaaagaagga ttagtatgcg ccatctgggg 360
 cttgctctgc agcttttcat cctggacaga aattgtggat ggatgattag tatgcaccat 420
 ct 422

<210> 772
 <211> 380
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189016h08b1

<400> 772

tttccgaata cttgacagac aggagccgac atgatcaagg gcaagacccc ggaggagatc 60
 cgcaagacct tcaacatcaa gaacgacttt acgcccaggagg aggaggagga gatccgcagg 120
 gagaaccagt gggcctttga gtagaggagc atctaggcga tgccaccgcc gcgctgaaag 180
 aactacgcgt agtatctgtc atgtctgtat ttcagcgctc ttctttatgt ctgtcgtaat 240
 gggttgtaat tatcctcgag tctatgaggt ggtgtcggtg aacatcttcg gtcagtgggt 300
 atgtttgcga gaacaagaaa aacctatcgt ggtctgtggc catcgcttgt caaactgaat 360
 cttaatcgtc aagtggatgc 380

<210> 773
 <211> 276
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189016h09b1

<400> 773

ttttcgatta cacacactcc acgctcgccc aggaaaacca gcggcaagaa gcaagttcag 60
 ttgaggttgg aggtcgagtg ggatcggatg gcgtcggcgc cggaggagtt cctgggagcg 120
 cgggagggcg gggtcggcgg ggacgcgctc tactgcgcca tcatcctgtg gctgtccgtc 180
 atgtcgtgga tcatcttcac ctgcgtcggc ggcgacgacg gcggcaggcg ccggaggggc 240

cgccgggaca ccaaggtctt cgtcggcgcc gagcgc

276

<210> 774

<211> 309

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016h10b1

<400> 774

tcggttgagg agagcggggc tgcgtacgtg gaccgctacc ctgacctggg gccgtgcggc 60

gcgcccaccc gtacgtggcc ggggatcgga tggacgatca tctggcgggtg ctggcgcgcg 120

gcgaggggtg gacggaggag cggcacgcgg cgttcctcga cggcgtggag cgctccttcg 180

tgcaggaggt gtcgtggggc gccgccggcg tcagcgagga gcggcgagcg tcgcgcaggc 240

tctgccaccg ggggccgccg cccgccggcg ggcgtggcca gctcccgctg gatcgcccc 300

tccttgaca 309

<210> 775

<211> 67

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016h11b1

<400> 775

gcgactacgc gtgcgcccac gcggtcgacc acgcgtgcgg ccacgcgtgc gcccacgcgt 60

ccggcgga 67

<210> 776

<211> 265

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042a01b1

<400> 776

ctgacgtgtg ggctcggaag ctcgcattgc agcgtggct tgaagttatc gaccctgac 60

accggtacgg gcacaacctt cactactact acgactgctg gctgaggtgc gaaagcaggg 120

agcctttctt ctactggctc gacatcggag agggcaagga gatcaacctc gaggaccgat 180

gcccgcggtc gaagcttctc agccagtgc tcaagtatct tgggccgaaa gagagagagg 240
aatatgaggt tgtgatcgag gatgg 265

<210> 777
<211> 259
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042a02b1

<400> 777

ctcacgctgc cggggttggt gcaagcagaa gctgggtgct tatgtatata ctggctgtgt 60
cactagctgc ttgcaaagct ggagccagcg tcaagaagat tccgctgtac cagcacattg 120
ccaaccttgc tggcaacaag caattggttt tgcctgttcc tgcattcaat gtcattcaatg 180
gtggatccca tgctggaaac aagcttgcta tgcaggagtt catgatacct cctactggag 240
ctgcctcatt caaggaggc 259

<210> 778
<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042a04b1

<400> 778

ctcacttgtc cgcccacgcg tccgccaaagc tccgactcct acgcccgtct ccccccagat 60
caggaggagc acgccgcacc ggagcgccga gacctcgaag ccttcgtctc cacctcggag 120
cagagatggg gctcacgttc accaagctgt tcagccgcct ctttgccaag aaggagatga 180
gga 183

<210> 779
<211> 260
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042a09b1

<400> 779

tcgttacgcy tccgatcaat ccattcttcc atccggattc atttcctttg agcagctcct 60

tcagcaacta tgaagggcac caagctcgcg gcgatcctga tctccaggc cgtcctggtc 120
atgggagtc tctcgacgt caacgccgac ttcttccca agtgctgcaa caactgcagg 180
ttcttc 186

<210> 783
<211> 247
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189042b05b1

<400> 783

tagagtgtgg cggctacaac aacggctacg gcggcggtgg ctcgtacagc aacggcaacg 60
gcggtatcac gccctacaac ggcgggcggtg gtggctacaa cagcaactct ttctacggaa 120
acggcgggcg tgggtacaac aactcttctt acggcaacgg caacggcggt gacgggtaca 180
acaacgctcc cagttgggca tctcaggaca ccggcgggccg gacgccgatt gtcataaaca 240
ccaggga 247

<210> 784
<211> 266
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189042b06b1

<400> 784

ttagatcgtg gcggctacaa caacggctac ggcggcggtg gctcgtacag caacggcaac 60
ggcggtatca cgccctacaa cgggggcggtg ggtggctaca acagcaactc ttctacgga 120
aacggcgggcg gtgggtacaa caactcttct tacggcaacg gcaacggcggt cgacgggtac 180
aacaacgctc ccagctgggc atcccaggac accggcggtc ggacgccgat gtacataaac 240
accagggagg tccacgttta tggggc 266

<210> 785
<211> 113
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189042b08b1

<400> 785

tcgctgcatg ctccgtcgtg ccatagcctg tggtgtgccg gattcggcca ccggggccac 60

tagatccatg gcaagtggat cccgtgcgtg ctagattcgg ctgtgttgcg ccc 113

<210> 786

<211> 109

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b09b1

<400> 786

tcggtcctgt acccggagct ggagtgggac tgccggctgt cgttggtgaa gagcatcaac 60

gtgagcgggc acaagtacgg tctcgtgtac gccgggatcg ggtggtgca 109

<210> 787

<211> 315

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b10b1

<400> 787

tttcgtcttt cctccctct cccgccagga ggttctgat gcaagaatag gttcctgttt 60

tcaagaagct ccacccctc ccatatcagg gcaatcaggg tatacaccat ttgccagtcg 120

gagctcacgg actgctgcac gcgcaatgga tttggaattc ctttctttat caagcagtaa 180

taacagaact gctgcgtcaa cagagcaggg ggtacgaaag gtagctgaga acactcatgc 240

atttgggctt cgacaacaaa gcaacggaat tgtgaatata caccattctg ctcagcattg 300

gtcccttaaa aatac 315

<210> 788

<211> 129

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b12b1

<400> 788

tcgttctcgc cacaacctct ctctctcctg tgctccactc tacagaacag aacaaacagt 60

aggaggagcg ctctccttcg gccgcgcgcg tctgcgtccg ttccgcaatg gaggcgtgac 120
tcgcgagcg 129

<210> 789
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c01b1

<400> 789

ctcacgtgtc cgcggacgcg tggctagggt ttccaactgc cctgctaccg ccgccgccac 60
ctccccctccc cccaccacac cctcagccat ggcggtcgcg gagccggtgc ccgggggcga 120
cgtgaagctc ttcaaccgct ggaccttcga ggatgttcag gtgaccgaca tctcgtgaa 180
cgactacctc gcggtgacgt ctatgaagta ctacactttt ctgccgcact t 231

<210> 790
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c02b1

<400> 790

ttagatagaa gagccagtgg cagccctctg ctgcgcctc cagaaggcta ttgaaatgct 60
ccggtcgcaa gcaacacctt cagaggcagc ctctgcactt caaacactct tcaaaattat 120
caagaatgtg atagagaatc caaacgatat tcggtataga agactgcgta agaccaatcc 180
tcatt 185

<210> 791
<211> 305
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c03b1

<400> 791

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gtttagtgtc ctttttttgg aaatacaggt acttctgaat tctgtcaatt tctgtactaa 120

ttttgtat ttt tgtgaggagc cacagatgtt tacaaatact agaatgatgc atgataggtc 180
gcacacaaac tcttgaccag gtgcctctca catattctca tgtttgtact atattcttct 240
taaactgtta acacaatgag catgtacttg gttcatccaa gaacacaatg agcatgttct 300
tgggt 305

<210> 792
<211> 165
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c04b1

<400> 792

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taatgtggcg tcgtgcatt tgctgtcaag cactgagtt tgatgagaat gaaaatgggc 120
gtgccaaggc caaggcccca acaaataacg ttgatggaat gaaaa 165

<210> 793
<211> 213
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c05b1

<400> 793

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aatttcaact ggaaatagat agttcatctg gcaactttgg tgcaacatct tctctccata 120
gatgtgcatt tgatgacttc catttctcgt tttggttagg agctcccacg atgggatgg 180
tacaaactta aagtccaagt gactataaaa gaa 213

<210> 794
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c06b1

<400> 794

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atttcaactg gaaatagata gttcatctgg caactttggt gcaacatctt ctctccatag 120
 atgtgcatct gatgacttcc atttctcggt ttggttagga gttcccacga tgggatgggt 180
 acaaacttaa agtccaagtg actttaaaag aaacaac 217

<210> 795
 <211> 179
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c07b1

<400> 795

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 gatggggcgg aggatcctca acgacgcgct gcgcacgatg gtgaacgcgg agcgggtggg 179

<210> 796
 <211> 215
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c08b1

<400> 796

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 aagcagggtc gccgcggcaa gttcctcgtc aaagccgacg acgccgtcta cgacgagctc 180
 gttaagctgg ccgaccaggg tatggattcc gaggg 215

<210> 797
 <211> 166
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c09b1

<400> 797

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CCAGGAGAGG

aatataagtt ctttgaaggg ccggagaggt aactgtaggg gaaatg 166

<210> 798
 <211> 92
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c10b1

<400> 798

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ccgatacctaa gggacggggt aacccccggca ga 92

<210> 799
 <211> 129
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c11b1

<400> 799

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ttaacaagga tataggcctt aatgcaattg gttttcttcg attctgtgcg gcaaagctgg 120

cagaagggtg 129

<210> 800
 <211> 120
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c12b1

<400> 800

ttaaagtctg taaaactacc taaatgggca ggtttatgac agtagaggac acaaaaaaac 60

atactatgac actggcattg agaccaactg ttagagacat atgtacatgt gccattcaa 120

<210> 801
 <211> 133
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d01b1

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<400> 801
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gcgccttcgt gggcggaac atcaccattt tccggggcct gctctactgg atcggccagc 120
tcctgggctc cac 133

<210> 802
<211> 299
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189042d02b1

<400> 802
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gcacatttcc ttgccctttt gtccgtccct gagctctctt ggattttagc ctttgagcct 120
tccatggccg cacttcacta gccgcccctc ggggtattaag atttgtaaaa atcggcgaga 180
tctgggtacc cgtccgtctt attcatcctg ctatagcgta agtatacttg gcttgcaact 240
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<210> 803
<211> 184
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189042d03b1

<400> 803
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gaagagacga atttcagctc aggaaccag atgggaggag acatgaaatg gatcgattaa 120
acggaaggga ccgggaccgg gatcgggatc gggagcgtga acattcccg gagagggaaa 180
ggga 184

<210> 804
<211> 127
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189042d04b1

<400> 804

ttcactgtcc ggtgaactat ttgcagtttc gaactcctga cattggaggc tgcttagctt 60
gagttcttcg gtgttaaaga tgttcctaga catagttacc gctgtctggt tgtctgttgt 120
tgtgtgt 127

<210> 805

<211> 175

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d05b1

<400> 805

ttttattaga tataacatgg gttaagcatg atggctctc atggtggcca gccaggtca 60
ttgatgaagc atgtgccagt agcaaggcca agaagaagac cagccatgat gctctggttc 120
gactgtatgg cacatgccta gacttgtatg ttgacccatg gaagtctaac atgga 175

<210> 806

<211> 161

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d06b1

<400> 806

gtttattaga tataacatgg gttaagcatg atggctctc atggtggcca gccaggtca 60
ttgatgaagc atgtgccagt agcaaggcca agaagaagac cagccatgat gctctggttc 120
gactgtatgg cacatgccta gacttgtatg ttgacccatg g 161

<210> 807

<211> 151

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d07b1

<400> 807

tcggtatcat catccctgat accaaagctc atcttcttct ccttgaaatc tttttgggtc 60
cacagatttg gaggatgtct tgcaactgcg gatcaggctg cagctgcggc tcagactgca 120

agtgcgggaa gatgtaccct gatctgacgg a 151

<210> 808
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d08b1

<400> 808

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ccctgtccct ccccgcccta ggcgacgccg acccataccg gaacaggagg accgacaccg 120
ccgtaaagcc tccgagccag ctgcctcccc gtcggccacg ctgcaaccag agcaagatcc 180
cgcccctggt cgcattctcag aatggcgacc ctgaggaacc tgaagatcaa gacgttgacg 240
tgcaagagga t 251

<210> 809
<211> 153
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d09b1

<400> 809

ctgaaacccc acgcagacac agctccgctc cgggctcacg cacctaccc cggccacctc 60
ctcccacca ccgccgccgg cggagccatg gaggtcggcg gcgaggagt cgcggtcggc 120
gtggtgatct cggcgaagac cacccttggg gag 153

<210> 810
<211> 88
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d12b1

<400> 810

tatgaggtga tttgggcatg gaaattcctg tagagaagat cttttatgca cagaaggtga 60
tgattttcaa gtgcaacatt tagggcat 88

cgtagcggtg cgacgacccc ttcaaccact ggagc

335

<210> 814
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e06b1

<400> 814

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ggacctcaac acgctgtcgt ggggtgcacaa cgtggcgctg cagcgcaaga tcgtggagct 120
ccggaagaag cacgccgacg tgcgcatcat gtacgccgac tactacacgc ccaccatcca 180
gttcgtcctc cacgccgaga aatgggggat gctaaggcag aagccgaggg cgtgctgcgg 240
ggcggcgggc gtgggggtgt acaacttcaa cctgacgtcc aagtgcggag agcccggcgc 300
gtacgcgtgc gacgaccct ccaaccactg gagctggga 339

<210> 815
<211> 103
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e07b1

<400> 815

tgtcacgcgt ccgcagacat agacggcacg aagcactgca agtctagagt gctcgaataa 60
ccggatgccc gcttgcccag cgaggcggcc agatgtgtgg atg 103

<210> 816
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e09b1

<400> 816

tggaaaagaa aaactaaaat cttagtctcc ccagcacgc gtctttcaaa atttagactg 60
actgggtctt tcaaaatcta gatacagcta gcaagcgtat gcgcggtcag tccagacgac 120
caccagatct ggatctcttc attccccttt gggcttttgt caacgctttt gcttggtgag 180

catcgctcgac cggctgcagg ttgctcatgg tctagctacc tagaagacga gcagcagcag 240
caggccttgg cgagtctccg tgtcccccttc cctcctttcc ccagcaagtc aagggaggaa 300
gaaggggaagg aaggaagtta ggagaagctg ctagcggccg aagccttatc gctttgctga 360
ca 362

<210> 817
<211> 132
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e10b1

<400> 817

ctcacgcgtc cgcccacgcg tccgcaagtc tcaaagacag tgtagctagt aagtgagact 60
gtaagtgtta agacatgaag aactctcact gcagcagttt gctcctgggtg tgctcagttc 120
ttgtgctctg cc 132

<210> 818
<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e11b1

<400> 818

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tgaaaaatct ggtcaacata ttgccaaatt tcttgatgca ctgccaaagtg ccccatccct 120
gggaagtgc ccatggctct ctcgactgcc ttctgtttat gaagccattg ttatccctac 180
aca 183

<210> 819
<211> 199
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e12b1

<400> 819

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ctccttgtgc tgcctctgag gattgtctgg ttgtgagggc taggtgctac atctctgcct 120
 tttgcgtttg cgcgagtttg gtgtctgtgt ctgtgttcga tcaccagggt cgatccagag 180
 cgatttgccc tgttgagg 199

<210> 820
 <211> 309
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f01b1

<400> 820

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 tgtgtgacaa tggcactgga atgggtcaagg ctggttttgc tggatgatgat gcccgaagag 180
 cagttttccc tagtatagtt ggccgccctc ggcacacagg tgtcatgggt ggaatgggcc 240
 aaaaagaagc ctatgtgggt gatgaagcgc agtcaaaaag gggtttcctg accttgaaat 300
 accctattg 309

<210> 821
 <211> 215
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f02b1

<400> 821

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 gccaccaccg cttccagcct cctcaagacc tctttctccg gcgttcgcct cccggcgggc 120
 gcccgacccc cgtcctgcgt cgccaccccg cgcgcggcg ccatctgcaa ctccatcttc 180
 tctccacccc cttcctacga cctcaacgcc ttcaa 215

<210> 822
 <211> 172
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f03b1

<400> 822

tacgttgtgc caaaaatggt ctctctctct cccattctc ctactcgccg gcatggttgg 60
catctcccaa gccggcaaca tcgccgtcta ctggggccag aacggtaacg agggcacgct 120
cgtecgacgcc tgcaacttcg gcctctacgc atacgtcatg gtctccttcc tc 172

<210> 823

<211> 118

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f04b1

<400> 823

tttgatcaat cccggagatg gagatctgtg actttgatth cgtgccatgt ggctactcca 60
tgaacgccat ccatggctct gctttctcca ccattcatgt tactcctgag gacggctt 118

<210> 824

<211> 171

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f05b1

<400> 824

ttaagcttac tcaactacct actagtttta gtttctcgtt tatttacctt tagttaccgg 60
gggccatcgg catccttcat acagtactgc caggcagatt tccaagccaa gaaacggacc 120
aacagcttgc taatcgggtgc cgttactggt catggtcgcc gtgagtttta t 171

<210> 825

<211> 126

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f07b1

<400> 825

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agggtcctt gctgcgagaa gatggggctc aagaggggcc cgtggacagc ggacgaggac 120
atgacc 126

<210> 826
<211> 110
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f08b1

<400> 826

gtcgtggaag gaggaggttt cttctcatcg acagcttcag gatacagcca tggccttgct 60
cttttgctgc tgggacggac agaagaagac aagcctgtca aggcattggag 110

<210> 827
<211> 153
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f09b1

<400> 827

tcggcggcgc gttgcacagg agaaggagca ggcggcgggtg gtgcccgaag aggagaagca 60
cggcgaccta gcccagagctc gcaaccatgg ctaggggttt gaagaagcat ctgaagaggc 120
tcaatgcccc gtctcattgg atgcttgaca agc 153

<210> 828
<211> 112
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g01b1

<400> 828

ttaaatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa aaaaccacaa 60
agaaaaaaaa aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg gg 112

<210> 829
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g02b1

<400> 829

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 ggagtttatg ttttcaccac atattacgtc attggatttg atcccagtgt aagcaggttc 180
 ttttaagcagt atctgctgct ccttgcgatc aatcagatgt catcttcgct gttccgcttc 240
 attgctggaa ttggaagaga catggttgtg tcccacacct ttggaccttt atcactgttg 300
 gcttttgcag cattgggtgg ctttatcctt gcaagacctg atatcaaaaa gtggtggatt 360
 tggggttact ggata 375

<210> 830
 <211> 156
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g03b1

<400> 830

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 ccgccgccat gccggccgcc gggaagcccc tcaagttcgt ctccgaacag tttgcgcaag 120
 aaaggggccc gggtttcttc atggacagcg tgatcg 156

<210> 831
 <211> 146
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g04b1

<400> 831

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 tgtcttgcaa ctgcggatca ggctgcagct gcggctcaga ctgcaagtgc gggaagatgt 120
 accctgatct gacggagcag ggcagc 146

<210> 832
 <211> 120
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g05b1

<400> 835

tcgctagagc atgggcgagg agctggtccc gtgctcatcc gccggcgagg gccagttcgc 60
cttccagggc ttcgcgggcg cgaaccttac gctggatggt ctgcccgcgc tcatgccccaa 120
cggactgctc gcgctcacca acttcactct ccagacaaaa ggccatgcct tcaaccccac 180
cc 182

<210> 836

<211> 137

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g12b1

<400> 836

gcctccgctc ccacgccgcc gaatccagga cctgttctcg gattcaccgc gattgaccgc 60
accaaaccct caggcgatcc ccggcacctc ctccccgcgc cttagccat ggcaggaatg 120
gcaccggaag gttccca 137

<210> 837

<211> 256

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h01b1

<400> 837

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gcgggagaga ggcgaccggc ggcggcgcgc gaggagggcc taccatccc acccaccacc 120
ccgccggcca agatgttcgg ccgcgcccc aagaagagcg acaacaccaa gtactacgag 180
gtgctcgggg tgccaagaa cgccgtccag gacgacctta agaaggccta ccgcaaggcc 240
gtcatcaaga accacc 256

<210> 838

<211> 156

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h02b1

<400> 838

tttcgttatc gacccccacg atttatggcc gcgtccctac cctgctatgc tgccccgtcc 60
cttgtctccc ccaagcacac accggcaccg cagtaagcca ccaacgcgcc aagagaaaca 120
ctcgagggag agagggagag cacgcgtgcg cgcgcc 156

<210> 839

<211> 203

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h03b1

<400> 839

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acttctctga gaatccgtac tttgaagaca gaaagcttac caagtcatat gcctttgctg 120
atgatggaac aaccacaata aatgccactt ccattaagtga gaaggaggga atggaaatta 180
atgggaatgc cattatgaag aaa 203

<210> 840

<211> 286

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h04b1

<400> 840

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ccaccggcat ccaggcggcg gctaacggca agcggcgaac gtaggcagtt tcatgatggg 120
tactgaggac tctaaagata tgctgaagaa tgcggactgg aaaacagtga gtggtccagt 180
gattactgag tcaagccagc caattgttaa gaagcgtctt ccaaagaaaa tcagacaagt 240
ccccgagtgt tactttctgc cccggcgatc tctaccttct gcattg 286

<210> 841

<211> 201

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h05b1

<400> 841

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aggcgagggg acccgttccc acctagagcc gatgcgcgac tccgtacagg gcggtggcgc 120
tgcagcagca ccagcgtctg gtctcctcct ccggcggcct ggcggcgacg gggggccaca 180
ggtgcggcga gcacgacggg a 201

<210> 842

<211> 205

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h06b1

<400> 842

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aggcgaggcg acccgctccg acctcgagcc gatgccgacg ccgtacagcg cggcgggcgt 120
gcagcagcac cagcgtctgg tctcctcctc cggcggcctg gcggcgacgg gggggccacag 180
gtgcggcgag cacgacggga cgggtg 205

<210> 843

<211> 220

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h07b1

<400> 843

tcgtaacaga tgcttactca gagcaatagt cccgtccctc cagaacttgc taggcatgag 60
gcgtcgaagt ttaagccagg atcggttcct gatagacctc caagaagaaa tgacaccgtc 120
tatgcatctc actgaagcaa tctgttgcag aagaggcgga gatacttctt gggttcaatt 180
tagggccacc ttctactgtg tcgagattta gtacttatga 220

<210> 844

<211> 110

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h08b1

<400> 844

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acgcacatac ggtgacagtg cttcagagac atattatcag aaatggagcc 110

<210> 845

<211> 225

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h09b1

<400> 845

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cggccaatgg cggaccagct caccgacgac cagatcgccg aattcaagga ggcttttcagc 120

ctcttcgaca aggatgggga cggttgtatt accaccaagg agctgggaac tgtcatgcgt 180

tccctggggc agaatccac tgaggcagag cttaaagaca tgatc 225

<210> 846

<211> 98

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005a10b1

<400> 846

gaaacgggac gcaccctgta attaagcact aagcgcgggg ggtgtactgg ctacgcgcac 60

ggtgaacttt acacttgcca agggcctagt gcccgctc 98

<210> 847

<211> 176

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189005a11b1

<400> 847

cggattcgtg ggtggacgcg tgggcggacg cgtgggcgga cgcgtgggcg gacgcgtggg 60

cggacgcgtg ggcggacgcg tggccgaagc tctaaacct gaactgtttt gcatttgcaa 120

tccaagttgt tcatttgcta attctgaatt caatattgtg aactgggtcat atnctg 176

<210> 848
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005a12b1

<400> 848

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aaaaaaaaat aaataaaagt gagaagatat tataagttac atgattcgtt atgcatgatt 120
tctagggctt tttttttttt ttgttggttt taattttttt tgattggccg atattttata 180
acattttaat tgggtggctc ctgttttttt taaattttatt tttttttgac cactttctca 240
ctttgtcatt ttgtttatat tggacaaggt tcctatttta tcgccttttc ttttataatg 300
gtactctgat ttggatactg ggccgtctcc cttttttact ctttttttcc tcattttttt 360
tgtttaggtt atatataccg ttaacttgcc tgcgcccgcac c 401

<210> 849
<211> 487
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189005b10b1

<400> 849

atttcacgcc gcaggagatc acccaggcca tctcagccac agagctcaac cgctgcttag 60
catccattct catgccttc attgtggttg tttctaactg ggggctggac gttggtggca 120
ccatcaccag agtattggtt tgcacgaggc cgctcctgtt cctcatcata acgaacgtaa 180
ccatcgatcat gtcgttgctg atggagaaca gggaccccaa tgcgaggggc agacaggccg 240
gcatcagcct tggttctgat ggcttagggc tgatgctgga gtcggggatg ctgctacaga 300
aggcgtctga agctatgctg atggacttca gcatttgccg tgtcatcatg atctgttttc 360
tttgattctg aacaccctgg tcatgttttc ttggattctg aagagaattt agatagtctg 420
cggaagcgca tgtagaattt cttttttctt ttggtgctata tcgnactctt atgtctatnt 480
atccgat 487

<210> 850
<211> 258
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005b11b1

<400> 850

cccactcgtc cgctgactgc ttacttttcc tcgcacaacc tgcagataaa atttgctgt 60
taacacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaagggggg gccgaataaa aaaaaaaaaa atacaaaaca 180
catgaaaaaa aagaaataat ttttaaataa gagaacaaaa aaaaaggtgg gcgggcctgt 240
taaaaaacaa aaaattaa 258

<210> 851
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005b12b1

<400> 851

gcggttgta gtttcggcgg cgactccacc accagcacca gctccagcac caggcgggcg 60
aaccaacca gaccatggcg ccccgaccc gcgcgtgcgc atagcagacg tatgcggtga 120
ggacacaggg gcgtatgggc atgtcgcgcg cggaggcagt ggaatgtttc aagctcgggg 180
aaaggccctt agggggagat cgtcagtgcc gcccggtgtc cgagcgcgcg aagcccgtt 240
tcaaggtggt ggcgcaactag cgattcatcc acatcgcgat tgttgtgggc ctgataaagt 300
ccgacccaaa gcccatactg tttcagtttc tcgaaccgat cggatcgatt t 351

<210> 852
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005c11b1

<400> 852

cccactcgtc cgtccacgcg tccgagccta ctactagcaa gatataacc tacatagtag 60

<210> 855
 <211> 507
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005d11b1

<400> 855

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ggcagttcga cctttgcatg gcagcagtg ctagctccaa ggggogggtg atcgctggga 60
gcctcgctgc gcgcgtctc gccggcaagg ccaacgcctc cccgaggagg gcggtgcacg 120
cgtcggccta cgacaagaac gtggacgagc aggtgcgccc ggccttcgtg ccggacgatg 180
tgatcggcgg cgccgggagc ccagacaagt actggggccc tcaccgacc accggcgtct 240
tcggcccggc cgcggtcgac cccaagctgg ccgccagcct cgcgccgggt gctggcgccg 300
cgaatggtgg cgctccgtg ctggaccaga aggtgtggtt ccgcccgtc gaggacgtcg 360
agaagcccc cgtcgcctga tcgccgacga cgacgaccat agcccagctc tacatctcta 420
tcaactcgtt tagctgggct cgacttccta cttataatta catataatct gtagtggtgt 480
gctcgtgcta tagtacagac atggcag 507
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<210> 856
 <211> 315
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005d12b1

<400> 856

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caggatcctt gggttccttt tgctgctctt gcttttgatg taatggttat cagtgtaatg 120
gtaatcaagg cagattgtac tttgtggtag ctggtgaatt tagggctacg ttgggtggcc 180
ggcctgtggt gaccgtttgg gatgctttat ggctcgtgtt gcttcgtttt gatcttttct 240
tttctgtttg aactcgtttg tagaactcgg tggttttcag taatgaaaat tggaaggggc 300
aagccctttt ttgat 315
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<210> 857
 <211> 374
 <212> DNA
 <213> Triticum aestivum

ggcctaaaaa ctgcacgatt caatccgttc caaaacaagg gtagccgtca ccatggcgag 60
 ggcaacgaca ctggtgctcg tggccgcgct cgccgtcttc ctctctctcg cctccggccc 120
 cgcgggcgcc acggccgccc ggacctcgcc caaggacgtg gcaacggcat ctcccgacga 180
 gaaggtcgct gtggcgggcg cggaagacca cgagtgcgag atgatggccg gcgagaagca 240
 gcgggatgag tgcattggga ggaggacgct cgccgcgcac accgactaca tctacacca 300
 ggagaagcac aactagtagc cttcatatct gcgtccatgt aatgatgtta ttgttagtcg 360
 gcaactgcgtc tgcgtgttcg atctctatcc tatagcttcc tccatgaaca agggatcgat 420
 cccaccgtgc atgcatgcat gcatggcgca attatgtatt gcctaaaata atttagtaat 480
 tcgataatca aactggnntt t 501

<210> 860
 <211> 297
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005f11b1

<400> 860

tcgccctttc gtgcgggctt atcctcccct tccggttcgg gttctgggtc ggctctggtc 60
 cgagagtagc tagcctagtc tagggtttcc gtagagagga agggagaggg agatccattc 120
 atggcggaga cggagtaccg ctgctttatg ggcggcctcg cctggggccac cgaccacaac 180
 aacctacagt aggccttcag ccagtacggc gagatccttg acgccaagat catcaaccac 240
 cgctagacgg cgagggtccc cggttcggg ttcttcacgt tgggcataga ggagaca 297

<210> 861
 <211> 474
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g10b1

<400> 861

tcgcccactc gtccgggaat ccgaggccaa gtgccacgca actgtggtgt ccgggtggtt 60
 cacaggaacc cgctcacgct ctggtaaacc aagcaaagcg cagtacttca acaatccaat 120
 gtggcctggg gaggtcatt cgttgaaagt agagaagatt ttgtaccagg ggaaatcgcc 180

tcatgggtaa aagaaaaaaa aataaacag

329

<210> 864
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005h10b1

<400> 864

atcaccatcc tcaccggcat cttctattgg gttgccccagc tctcgggtgc catcgtcggc 60
gccttctctg tccagttctg caccggcgctg gcgacccta cacacgggct ttccggcgctg 120
ggcgcccttg agggcgctcg gatggaaata atcgtaact ttggggctctg gttacacggt 180
gtacgccacc gccgccgacc ccaagagggg ttctctggg caccatcgcc catatcgcca 240
tgggttatat ggtgggcgcc aacatcctgg gtgccggccc tttctccggg ggggtccatga 300
accctgcacg ctcttcggc ccc 323

<210> 865
<211> 220
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006a02b1

<400> 865

agcttttcga cttttgatg catagcgagc tcaagcgga catcgtcgta gtccaaggag 60
ctacacgga acttgccaca aacgtaaata atattggacg gcaatttcga caattgggtg 120
tcccggaaca tcaggggga agactgggtg actcctatcg aaacgcaaaa gaatagcgcc 180
accgggatcg aggatttaag cttctgggccc gatgactgcg 220

<210> 866
<211> 158
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006a03b1

<400> 866

aagtggaaga tctgtgatgt gctagctaga tcgatcaccg tttagctgat cgatgaagag 60

ctacaaaata aatgggcat acatcatcat gtgtggccag cactattgca ccttggaat 120
aacagaccta tgtttctgaa taaagctttt gtccgaat 158

<210> 867
<211> 517
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189006a04b1

<400> 867

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cgtttctgca caagagatca tggcgaagat gtcgtcgacg gccaccgtca cccgcgcca 120
cctcgagaac aagctcgccc tcgccaacg ctgctccaga gaggcgacgc tcgccggagc 180
aaaggcggcg gccatcgcca ccgtcgctc tgcggtccca acgtggcgga gcgtgaggat 240
gctgccgtgg gccaaaggcg acctgaacct caccggccag gccctcgctg tctgcaccgt 300
cgccgggatg gcatacttcg tcggggcaga caaggccatc ctgctcgctg cgaggaggca 360
ctcgtacgag agcgccccg accacctcaa ggacacctcc ttcgctggcg ccgncgccgc 420
cgctcgtncg cgtccgccg cattcttcag gccttgatct agcgtcctgc taatgtatga 480
tacgcacgct ngtgcccttg gcgtattcta gagacat 517

<210> 868
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006a05b1

<400> 868

ctcattgaaa gaagcaacat cttgttgaat cgtccctcta ccactttcct tgtcaaccag 60
agtaatggcc ccagccaaga acattggggc ggcatgaatc cttgtcattg tcatggtggc 120
aactgcatta ttaccgtcgt caagcgccac cctcaccaag tccggcgaga acctgttcaa 180
gtttgccttc gtcgcgtca tcgatacggc cctcgacgat gtcacgcca ccacccacc 240
agccaaaata cccgaagtac aa 262

<210> 869
 <211> 486
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189006a06b1

<400> 869

gttcaacagt cctaccatac atacatttcg ccgccaagaa tatccaaggg atccaaccaa 60
 gagagctagt agttaacaat ggcgtctgtg gggttcggca gcagcgtggc ggccgtggcg 120
 ccggcgggga ggacgagcct tcgcccgcag cggacgcggc tggcgggtgcc ggcgggccacg 180
 aggggcacgc cggctccggc caagaaggag aagagcatcc tggacttcat cgtcagcgcc 240
 atcgtcaagg acgagcagga gttcatcgag accaaccgcg tgctcaacaa ggtggacggc 300
 ccggcgccct ccgcccgttg caccgcctcc aggaaggccg gcggcaccac ctccggcaag 360
 aagcccgcgg ccggcagcga gggcgggcggc gggttcaacc tcggcggcct cttcgccaag 420
 aaaggctagg ctgaaccagc ccgcctaata cgtaagcgcg cgcttgggtg cgtgcttnca 480
 tctcat 486

<210> 870
 <211> 460
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189006a09b1

<400> 870

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 gtcggaaaca ccagcgaaac cttcatggga tttatatact ccaccaacc ttgggggttga 120
 gaacagctat tctggggatg cagcttttga ttgatggaga ggtatggaag aaagttgtgt 180
 atgttgacag gctggtgcaa ttgttcagat atgtaccacg cgaacaatta actatcccag 240
 attttgtatt tcagcatgat ttggaggtga atggtggtag gggcatgatt gtggacccaa 300
 gaacaaaaca tatctatcag agaccatctg gctgattcat gtcatttatg cagtccaaag 360
 ctcatacttg ttgcttgtgc aagtctttgt ataattactc ctttggtgat atttctcgnt 420
 ttcctttgta tcgaatttag gggttctatt cctttcattc 460

<210> 871
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006a11b1

<400> 871

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ggctaactgg tgctacgcaa ccgtecgccg ccggtgcccgc tcttccacca tcgtcgccag   60
cctcggcacc cccgcgccect ccaactctc ctccttccgc cccaagctca tcaggaacac   120
ccccgtccag gccgcgcccg tcgcaccgc attgatggac gccgcggtgg agcgcctcaa   180
gaccgggttc gagaagttca agaccgaggt ctacgacaag aagcccgatt tcttcgagcc   240
cctcaaggcc ggccaggcgc ccaagtacat ggtgttcgcg tgcgcccact cgcgtgtgtg   300
cccatcggtc accctggggc tggagcccgc cgaggccttc accatccgca acatcgccaa   360
catggtcccc tctactgca agaacaagta cgccggtgtt ggatcggcca tcgaatacgc   420
cgtctgtgct ctcaaggttg aggtcatc                                     448
  
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<210> 872
 <211> 486
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006a12b1

<400> 872

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cggccggcga caccctggag gactcaaga gtttggtgca gagcgccagc gtcgaggagc   120
ggaaccttct cgccgacgt tccaggatcg ccgagcgggtg cggcaggacc tgcaagggca   180
aggcggagtg ccgccgcgcc gtcgccgacg gcctcagggc cctcggctat gacgccgccg   240
tctgcaagtc gcggtgggag aagaccccgt cctaccccgc tggggagcac gagtacatcg   300
acgccgtggt tggggacggg gcgaggctga tcgtggaggt gcacttcagg tccgagttcg   360
agggtggccc gtcgaccaag gcgtaccgcg cggcgctcca ggcgctgccg ccgctgttcg   420
tgggcacgtc cgaccggctc ggaagatcg tgtccgtggt ggcgaggcg gcgccgaga   480
gcatga                                     486
  
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<210> 873
 <211> 487
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b01b1

<400> 873

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tacggggcca ccgacgaacc cgtccgccat gttgaagcaa ggaggaaagg ccaagccgct 120
caagcacgcc aaggctgccg agaaggacta cgacgagaat gacctggcat acctccataa 180
gaagaaggac gagcaaaagg ccctgaacga gctgaaggcc aaggcaggcc ataagggtgc 240
gctgggagga tctgtttctca agaagagcgg taagaaatga ggcattgccac ccatctcgaa 300
taccagaaa atgataatct atctatctac ctatctgtga cgcgcttcac tatctgtggc 360
tgtgacagac taccttcagt tgtgttgagc attgtgcaat cgaccactat gtcgcttaaa 420
cctatggcat gtcagcagcc tcttatggta tctatgatac agaaggaccg agctaaaatg 480
acatgac 487

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<210> 874
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b02b1

<400> 874

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catgggtctg tccgcgaagg tcttcgtggc cctcctgctg ctgctcgtcg ccacggagga 120
gcagggggga tcggtgcagg tggctctggc gagggattgc aagtcggata gccacaagtt 180
ccatggggcg tgcttcagcg acaccaactg cgcgaacgtc tgccagaccg agggcttcac 240
ccgcggaag tgcgacggca tccactgcc a ctgcatcaag gactgctaga tgcctagata 300
gccctggcta gtttgttctc gcgtactaga tgcattgatt catgtgatat tagctgaacg 360
atggtagatc tattatatgt ctatgtgcgt atgcgtgcgt tgatctgcga gtgctgggtc 420
tcggagattg catgaatgaa taaggggaat tgcac 456

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<210> 875
 <211> 471
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189006b04b1

<400> 875

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 ccggcgccgc ggctgcctct gctgcgcgtg cctggccgtc accctcgctc tcatcgccgt 180
 cgtgctcctg atcctcttcc tcaccgtgct ccgcgtgcgg gacccgacga cgcggtcgt 240
 ctccacgcgc tcatcgggcg tggccccgcg cctcaccttc ccggcgctca gcatccagct 300
 caacgtcacc ctctcatca cgggtgtccgt gcacaacccc aaccggcct ctttctcctt 360
 cccacgggc ggccacacgg acctcaccta ccgcggcgcc cagtcggcg acgccgagat 420
 cgaccccggc cgcgtccnca gtaaggggga cgcggacgtg aagctggcgc t 471

<210> 876
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006b05b1

<400> 876

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 tcacattgtt ccttcttct ctctccattc tttccttcca tctttgtttt ttctctttcg 180
 agtgtatatt gatctcctca aaaaaggcaa cagctccagt gatatgattg tgcccagcga 240
 ctcccaaadc cccacgaaga agatacacac actcatgatc tctatgcatg catcggtgt 300
 gctatgctgc aaataagtgg tggccttatg ttgatgaagg ttcggaattt ccacggcgaa 360
 tttgtgtata gtattgtacg gtgtacatca aatcatcaat ttaccattat atgtgcc 417

<210> 877

<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b07b1

<400> 877

cccacgtttc cggttgaga gagcgcgcg gagatggcag cctccatgat cacctcgccg 60
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tgcagcgggtg gcaagaagat caaggtcgac aagcccctcg gactcggagg cggttgaca 180
gtcgacatcg acgccaacgg caggaaggtc ggcaagaagg gcgtgtacca gtttgttgac 240
aagtacggcg ccaacgtcga cggctacagc ccaatctaca cgccggagga atggtctgaa 300
tatggtgacc gctacgccgg cggaacgacc gggcttctta tctgggccga caccctcgtc 360
ggactgctcg gcggcggcgt tctgctcgtc tacaacacca gcgctctcgc cggctaagag 420
agcatctacg tgtaacac 438

<210> 878
<211> 88
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b08b1

<400> 878

cggacgcgtg ggcgttcgcg tgggaatcaa gctattacac atttgatcat gttcatgtat 60
ggtatcaaat caagatgttt tactgcac 88

<210> 879
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b09b1

<400> 879

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tccaggcatt ttcttgcatc cacgacggca atggccaccg ctgatgtgca aaaccatcg 120
gccgcgctga cggaggaggc gccgcgggtg gagacgccg tcgccgctga ggaggtcgcg 180

aagacggagg aggtccccgc gccggcggag accgaggtcg aggcgcctgc tgcccccgtc 240
gaggtcgtgg agaccaagga ggaggcaccg gccgccgccg agacggagga tgccaaggag 300
gccgagccag cagctgcggc cgagccggag gccgagggcg ccaaagagac agaggcgcca 360
gccgtggtcg agacagagac caaagaggcc gtggctgagg caaagccggc ggc 413

<210> 880
<211> 484
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189006b11b1

<400> 880

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gcccggtac ggtccgatgc tcaccggcct cattgtcggc gccaacacca ttgccggtgg 120
caacttctcc ggcgcttcca tgaaccccg ctaggtccttc ggtcccgctg tggccatggg 180
agtgtggacc aaccactggg tctactgggt cggccactg gtcggcgggc ccctcgccgg 240
gttcgtctat gagacagtgt tcatggtgac gaagacgcat gagcctctgc ttggttggga 300
cttttagaaa agcatgttgc tcgcatactt gcatttatat tttgcgatgt ataccagtgt 360
gtgtaaggca atagatgttg ctgtagatt ttccaggaca agtgattcta gctaggggtg 420
caaaatggtt tgtagggagg tactacaatg gctgggtttt tttttggtgg ngggngggg 480
gggg 484

<210> 881
<211> 155
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b12b1

<400> 881

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acaaggcggg gcagttcgag gtggccgccg ggcagtccgg cgagggtgc agctgcggcg 120
acaactgcaa gtgcaacccc tgcaactgtt aagct 155

<210> 882
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c01b1

<400> 882

gcacgcccgc cttgtcatgg tcgccttcct cggattcgcc gtgcaggccg ccgccaccgg 60
 caagggggccg ctcaacaact gggccacca cctcagcgac ccgctgcaca ccaccatctt 120
 cgacaccttg ggctcctctt aagcggtcgg tgggcgagca atttctgtca gctcggctgc 180
 aaaatggacg aacgcgcgtc cgagtaacga acgtgctttt cgatttgtat atgaccagtg 240
 atggatgaga gggatcacca aagatccttt gatgagtaat gcaggctctga tcacatagga 300
 gagctgctgg gacttggtga tttgtaaaat atgaaccaat ggtgacttaa tgcatgcact 360
 tgtacatc 368

<210> 883
 <211> 86
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c03b1

<400> 883

cccattcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgcccgcc cacgcgtccg 60
 cccacgcgtc cggttctaga tcgcga 86

<210> 884
 <211> 454
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c04b1

<400> 884

caacatctcc cccgggtact acgatggtcg atactggaca atgtggaagc tgcctatggt 60
 cgggtgcacc gacgccacac aggtgctcaa cgagggtggag gaggtcaaga aggagtaccc 120
 tgacgcctat gtccgcgtca tcggcttcga caacctgcgc cagggtgcagt gcgtcagctt 180
 catcgccttc aggccaccgg gttgcgagga gtctggcaag gcctaaacta cgagttgaaa 240

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c07b1

<400> 887

aaatttttat gtttttcaaa tgaggagtgc taccggggaa taaatccagg aagaggtggc 60
ggcttgacag ggagtttagg acctttttgc ttgcattctc gtgtcttttg gcaaggagaa 120
aattatcatt tggaggg 137

<210> 888
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c08b1

<400> 888

cataactccc cctaattctc accccacca cagactgact cgcagcacac ctaccacgcg 60
cagcgcgcag agcgagatcg agatggcgac ggagctgacg gtggtgcagc tgcgggcgta 120
cgacggcacc gacgcgttca agccgatcta cgtcgccatc cgcggcaagg tctttgacgt 180
ataggccggg cgcggcttct acgggcccgg cggcgactac gcgctcttcg cggggcgcca 240
ggcgcgtccg gcgctcgcca agatgtccaa ggacgccgtc gacgtctccg gtgaccttat 300
ccggcccttt cgacaaggag ctgggcgtt 329

<210> 889
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c09b1

<400> 889

aaaaatttaa aaaattttta aaacaaaaaa taaaaataaa aaaaataaaa aaaaaaaaaat 60
gcgggggggtt tattgaattc agccaccgtc ctgcgaggag aacggaaagg gctaaactgt 120
tctgtacca cggtcatttt atatagtgcc attgcggttt tgtcaactct gacattgctt 180
tgggttttcc ttcttcattt atctgtgttg catgctccta tttttatgcg tatgtccatg 240
ttgatgtaac gacatgtatc gagaaagcct gctcgaatgc taatgcaatg ggtgggtatg 300

tctatgcgca tgcgcatcat atatttatac aatgtgtggg gtatgtattc gggtaactaa 360
t 361

<210> 890
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006c11b1

<400> 890

cggggctgtg caccgtgcag gtgaaccacg gcgtcaccgt ggtggggtac ggcgagacca 60
gcgccgccgg cgacgagggg tccgggaagt actggatcat caagaactcg tggggggcgg 120
ggtggggcga ggccgggtac atgcgtctgc agcgcgacgc cggcatgccc accgggctgt 180
gcggagtctc tctgctcgcg agctaccggg tcatgtgatt cattctgcca ggtcatgtac 240
gtagtaataa gtagactcat gcatggagca tttgtgaagt gtaagaagat agcgagtata 300
aaaatacgaa tatctataca tcagtgtgt 329

<210> 891
<211> 159
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006d01b1

<400> 891

cccattcgtc cgggggctgc aagctgcagt tgacaggagt tgttgatgc gtcgattaat 60
tgtcacttag tcaatctttt caattatctg tgttttgaga ttgtactgag tcgaggagga 120
taaggagtaa ctcttgacat tagtgtgaag tattttggc 159

<210> 892
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006d06b1

<400> 892

gcagttcgag gcttagcaac caaagctaca atcctgacga tgaagtggct gtcccaccat 60

ttggtgagcg gtatgaggcg aacgctgaat caggcgaaaa gtatacgggt atctttaaca 120
 ggggtgagga tgataaacta tgcgccgact cttctgccag gcagcattca tctggcaatc 180
 gcaaagacga aaataaggtg caacagacat gtccttgctg catactttga caagatgggg 240
 atacaatcac agagagttct gataaacgtc ctgggatact tgtggaacaa attgtcgttc 300
 ttgtgaagaa tttggcacca aactatatat tcatgtatac ttttcaatgc tcattagaca 360
 ttactattgg cgtgggtgtg gacctatgat tgcacgacg tacaatttat gctatatgct 420
 tatttgaac atatatatga tgc 443

<210> 893
 <211> 475
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189006d07b1

<400> 893

acggacgggt cgtacggatt ccacctccac ggacggaacg ctggctcgtca gccagccaga 60
 ccgtcttgtg gtcaccagta catctctgta cgaacgtcgc ttgttcttgg acgcccttgc 120
 gaggcactcg cacatttgct ctctgccgac gtgccatggg acatgcggta atttgagcct 180
 gaagtaaadc aaaagcaagc gtccggggcg gaacacagcg caaaaggctcg aggatgacga 240
 cgaacatgtc gaacatgtcg tacgtggaca ccattctccg tctaccgcc tgcgcgctgt 300
 tgacgtaccc gacgcgcgcc cggcggggac acgcgctgga ggagcctccc ggcgggcacg 360
 ggccggcgcg gagatccaag cccgtgagga tttccagag catgttccgg tctctgtcgg 420
 acgtgacgga gccacgctgc ggnnggattt tgacaccagc cccgaccggc gcaaa 475

<210> 894
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006d08b1

<400> 894

acggagctgt acccgcggtt ttcggggccg acaccttggc gtgcgacgag gggatgcgcc 60

aggcgatcga ggtcatgaac ggccaggacc tggacgggcg caacatcacc aggaacgagg 120
cccacacca ccgctcccga ggtagcgggtg gccgtttcag cgggtggaagc ggtggcagtt 180
acagcgggtca tcgctctgag ggcagcggcg ggggctactg tggcagtagt tgtagctaca 240
ggggtggccg cctacgtggc tgaggagggt acggcagcca tgaaggccgc tgcggctacg 300
gcggtacgc acgccgtac agtggaagac gcgaggcgcc ggcgggtggaa actggaggga 360
gagaatggtg ggccccctcg ctgg 384

<210> 895
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006d09b1

<400> 895

gcgccttcta cgcggtctcc tacaagcctt tcttcgacgg cgccgtccag gccaaagggc 60
ccaacgacga caccaccacc gaagccacct ggtgctgcac cggccgccgc tctctcaacc 120
tgaggagcta cccccctgc ttctaggcat tggaggacaa cgagggcccg gccccggccc 180
cgggcaagac cgacgaggcg gacgtggagc tgcacaggaa gaaacggctg ctggactaca 240
aggtgtacga cgtggagggc aaggtgaagg ggtcgggtgcg gcgcagagtc aagcggatca 300
acggaaagtg ctcccgacgc acgtctacgg gtggtgacga gccggcgatc cgtccatgca 360
ggatggtctg cctacgtgtg ctgccgga 389

<210> 896
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006d10b1

<400> 896

ggaccatata tccctgtgtc tggcatgaat tggtagatgt gataaagtgg acgtttcaat 60
tggatacacg cctgctacaa atcagatcgt tatttgtaa ggcataatgat gagctcttgt 120
aatcctaata tactaccac atgttacagc tgatgttatt atagaattag tactgtgcct 180
aagagatagt actctggtga gaagcaggca acacgtaata tgtgtgtcat ttgagaaaaa 240

tgaaacttcc aactttccaa ctgttcattg tatatgtaca ttggaaacac actatcttag 300
 acaaatagat gattcagcag gatcaatgaa cgctcgcttt 340

<210> 897
 <211> 224
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189006d11b1
 <400> 897

ggcggttacg gacgtcctag gggcggagcc tggcggaggg aggagtcgcg cggaggaaga 60
 ccacactgac gctgaatcgg tattttcaaa tttggggtag tttggtcatt tcatcaagtt 120
 tcacctggtc ggaaataata cccaacgac aaataaatag gaacggaggg agtacatccg 180
 tatgtttttc gtattaaaca aaaataaaca ttgctgaaaa taca 224

<210> 898
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189006e01b1
 <400> 898

cccattcgtc cgggacaatg tggaagctgc ctatgttcgg gtgcaccgac gccacacagg 60
 tgctcaacga ggtggaggag gtcaagaagg agtaccctga cgcctatgtc cgcgtcatcg 120
 gcttcgacaa cctgcgccag gtgcagtgcg tcagcttcat cgccttcagg ccaccggggtt 180
 gcgaggagtc tggcaaggcc taaactacga gttgaaacaa tggcctatgt atgaaggctct 240
 tttgtgaact taacttttgt ccaccactct gctggacgac cagagcatat ttttcattct 300
 atatgggtctg tgtgtgtatg tacgaacata ggttctcgag catgcatatg taaattctag 360
 aaccggctac acatatacaa aacctgtgtg atatttatta tatacaaaca cgcgaccat 420
 tgtcttgctg ttattaatt 439

<210> 899
 <211> 475
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189006e03b1

<400> 899

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agctagctac agacccatag tacaaacaat aatagagcaa ctgagcacac caggacacag 120
tcggttaagt actgtgacag ggagctaggt tcagttcacc acaaacgcct catctccaag 180
ccgagcacct cgccatgagc acggacgcgg acgccgtgcc ggtggccgtg gcgccggcga 240
agcgccctcc catcaacaag tacgccttcg cctgcgccct cctcgctcc atgaactccg 300
tcctcctcgg atacgacatc tcggtgatga gcggcgcgca gctgttcatt aaggaggacc 360
tgaagatcac ggacacgcag atcgagatcc tggccggcat catcagcatc tactccctcc 420
tgggctcgct catggcggng ctcacgtncg actggctggg gcggcgctac accat 475

<210> 900

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006e04b1

<400> 900

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ctggagaacg tcatccgcga cgccgtcacc tacaccgagc acgcccgcg caagaccgtc 120
accgccatgg acgtcgtcta cgcgctcaag cgtcaggggc gcaccctcta cggattcggc 180
ggctgacctg cgcgcgtgc tccaatctcc aatctccatc gactctgact ctgctagctg 240
ctgttctggt gctatggttt cgtttctgag tgcgtgcgtt gttgggtccat cggctctgtg 300
agttagtgga aggcgatgga tctgaatgca gtcagttcgt cagagtgcgt ctgttgatct 360
atcggctctc gtagtcagtt cctcagtgga aggcgatgaa tatgaatgca atggggctcgt 420
tggttctttc t 431

<210> 901

<211> 137

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006e05b1

<400> 901

tcgcacatac agagaaaaag tgaccttgcc tcggccgccc gacgatcctt gcctgacgca 60
acagccatcc atctatccgt tgatctgttc atctcacaag agcatgcccc catggtgcgc 120
ctgttctacc tgtgtgt 137

<210> 902

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006e06b1

<400> 902

tcgcaaaacc ccgattcctg ttcgtgtctc ctgtcctccc cggccgaccc cagtagctag 60
cttcgacaat gaacatcttg aaccagccca tcagccccgg cggcgccac gcggccttcc 120
cggccgccgc cgccgccaag gacggcggca tgccggcgtc gctccgcttc gacgtcggcc 180
ccagcaccgc ccaccgcgcc ccgaggcggc agacgcagac gctgcttcgg gccagcagca 240
gtagctacgt cggcgccggg cacgccgacg aggccgccgt catcaagagc gcggagcagc 300
agaagggggc cgtggtgccg ccgttccagc cggtgacgct caacttcctg cgctcgctgc 360
tggacagga cagcatgacg tccatcgccg aggagggcgg cgagggcgcg ggc 413

<210> 903

<211> 192

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006e07b1

<400> 903

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aggcgtgata cttgtcttga aactactgtt tgagttacta tctgagtcac aacctcatgg 120
atgatgtaat ggatagatgc atcgggcggg ggaatagact gtttaatgaa ttgtgtcgtg 180
aatcatggaa tc 192

<210> 904

<211> 454

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189006e08b1
 <400> 904
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 agcccaagga ggagaacgtg acgctcggcc ccgccgtccg cgagggggag cacgtcttcg 120
 gcgtcgcgca catcttcgcc tccttcaacg acaccttcat ccatgtcacg gatctgtccg 180
 ggagggagac gctcgtccgc atcaccgggtg gcatgaaggt caaagctgat cgtgatgaat 240
 catcccccta tgcagctatg cttgcatctc aagatgttgc tgtaagatgt aaggagcttg 300
 gaattactgc tctgcacatt aagctccgtg ctactggtgg aaacaagaca aaaactccag 360
 gtcttggtgc tcaagctgcg cttagagctc ttgcacgttc tggcatgaag attggacgca 420
 ttgaggatgt taccgccgtc cccactgaca gcac 454

<210> 905
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189006e10b1
 <400> 905
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 tcctccttcc gcccgaagct catcaggaac acccccgtcc aggccgcgcc cgtcgcaccc 120
 gcattgatgg acgccgccgt ggagcgcctc aagaccgggt tcgagaagtt caagaccgag 180
 gtctacgaca agaagcccga tttcttcgag cccctcaagg ccggccaggc gcccaagtac 240
 atggtgttcg cgtgcgccga ctgcggtgtg tgcccatcgg tcacctggg cctggagccc 300
 ggcgaggcct tcaccatccg caacatcgcc aacatgggtcc cctcctactg caagaacaag 360
 tacgccggtg ttggatcggc catcgaatac gccgtctgtg ctctcaaggt tgaggtcatc 420
 gtggtgattg gccacagccg ctgcggtgga atcaag 456

<210> 906
 <211> 514
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006f03b1

<400> 908

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gggaggaggc aatgatggtc atgggtaccc acccgggtggc caggggggat accctccggc 180
agggtacccg ccgcagcagg gaggttacc tccacagcaa ggaggttacc ctccacagca 240
aggatacccg cctgcacctg gagcttacc acctgcacct ggggcatacc ctctgcacc 300
tggggcgtag cctcctgcac ctggagcggg aggccctgac ggggagaagg ggctcctctc 360
caacatcatg catggtgttg ccggtgctca tgggtggtgt catggctacc catctggtgg 420
ccacgggtac cccccgcagc agcatggata ccctcagcag ggctaccctc ctacgcatgg 480
ctaccaccg cagcagcatg gctaccctcc acagcagcat 520

<210> 909

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006f04b1

<400> 909

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ctgggctccc tgggctccct ggctgcccgg ggctccctgg gctccctccc gttcccaaatt 120
ccaccgccac caataagtct ccatgatcgt ctatggtgta ctacgtgctg gctaaccatgc 180
atggctgaag ctcaactact tgtgggttta gacttgacgc tagcacgcac cggccggaag 240
aaaatcaccg gcgtttcgtc caagcgtctg taccaactat cctggcgtgt gtacttcctt 300
tcagttaaaa ctatcgtatg tatttccttt cgggccacgt 340

<210> 910

<211> 366

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006f05b1

<400> 910

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaattgg gggggccctt ttaaggaaaa aaaattttcc ctccctgggt ggccaaagaa 240
 aacctttttt ttagggggaa caaaaaaaaa ataacggggc ctatttataa aaacggggga 300
 gcggaaaaaa acctgggggc cccaaataaa ttgcttttgg aaaaaaacct tttttcccaa 360
 gttggg 366

<210> 911
 <211> 513
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189006f06b1
 <400> 911

cccacgcgtc cgcacacaca cacacacaca gagccgaaac ccactcttcg ctcaaccgtc 60
 tcggagcaga ggctctccct tcaccttcgt cttcctccct ctcggcagtt cgacctttgc 120
 atggcagcag tggctagctc caagggggcg gtgatcgctg ggagcctcgt ggcgcgcgtc 180
 ctcgccggca aggccaacgc ctccccgagg agggcggtgc acgcgtcggc ctacgacaag 240
 aacgtggacg agcaggtgcg cccggccttc gtgccggacg atgtgatcgg cggcgcccgg 300
 agcccagaca agtactgggg cctcaccaca accaccggcg tcttcggccc cgccgcggtc 360
 gacccaagc tggccgncag cctcgcgccg gccagcgccg ccaagggcgg cccctccgtg 420
 ctggaccaga aggtgtgggt cgcggcgctc gaggacgtcg agaagcccc cgctccgctga 480
 tcgccggcga cgaccagtcg accatagccc agc 513

<210> 912
 <211> 477
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189006f07b1
 <400> 912

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caaggagctc aggtccctct tctacaacct ctctacagg cgccgcctct cgcacgacca 180
cgaggagcgc cagaggttct ccgagaagat cattgtcctg ctctcactg tcgatgcgct 240
cgagggacct gacttcatgg tgaggacggc gaagaaatct atgctggagg aactggagag 300
catgctggag attgtggacc cgcagccacc aggggaagcag aggtcgttta gccgccgcaa 360
gttcgatctt ccagagggcg gagcgattcc gaacgagaaa actgcaggcg tgaacaatgc 420
tgtcagggtc atcaaacactg gcaagggcaa gcagtaggca cta 463

<210> 915
<211> 484
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006f10b1

<400> 915

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caggaagcgc agtagtcgac gcagctgagc caatggcccg ccgcacggcc ctcatcctcg 120
ccgcgctcct cctcgtcgcc ctggccgctg cgccgttggc caatgccaaag aaggccgcca 180
aggaggagaa ggccttcgac gccccctcgg ccgacgcgcc ggccgtcgac tcacccgcgg 240
aggggccctc cgatggaccg gcggctgccc ccgggcctga gggcatcgtc ggctctctgc 300
ccgacaacga cgacaacgac gacaagtga cccgagtga tgccctttgg aaggatccgt 360
tcgatgctga tcagatcgtc cgcatggatt ttagtttcga gacaataata atactactac 420
gtataggcct gttgccctgc taggaggatg ccgtcgtaat tcaaattttt ggttttccgt 480
cttt 484

<210> 916
<211> 177
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006f11b1

<400> 916

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cagcctgccca tttctgttgt tgagacagcg tgggtgttttg gttctacagt atgatattag 120
 caatgagtcg ctgtacatat tattgtgagt tggaagatca tatcatgtgg tttctcc 177

<210> 917
 <211> 505
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g01b1

<400> 917

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 tcgagagcag cgacaccatc gacaatgtca aggccaagat ccaggacaag gaggggatcc 120
 cgccggacca gcagcggctg atcttcgccg ggaagcagct ggaggacggg cgcacgctgg 180
 ccgactacaa catccagaag gagtcgacgc tgcacctcgt gctccgcctc cgcgggggca 240
 tcatcgagcc ctcgctccag gccctcgccc gcaagtacaa ccaggagaag atgatctgcc 300
 gcaagtgcta cgccaggctg catccaaggg ctgtcaactg ccgcaagaag aagtgtggcc 360
 acagcaacca gctgaggccc aagaagaaga tcaagaacta gagctcgtaa aaccgttatt 420
 gccgctttca ttgtctggat aaatctgtag acataaaatg tttctgggta tcaatttgct 480
 gctcatgtca ggatgatgaa ccttg 505

<210> 918
 <211> 260
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g02b1

<400> 918

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 aataaaaaaa taacaagtta agctaaaaag attaaaaaat gaaccaacaa catatgcgac 120
 tgaatggaga ccttctttgc ccatgaaaat gaaaattttt gcttgctgta ccaaggtgat 180
 cgggggggtgt gggttataat agtaccatat aaactcattg tgctacaaca agaatttgt 240
 gtagtgatgg tgtaatacac 260

<210> 919

<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g04b1

<400> 919

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accgctctcg acttcatgcc cgccgagaag gcccccaag ccggcaccgt cgccatcgat 120
aacaatgccg ccggtgccgc cgtgccggtg cagcagcagc acaggagact ggaggggaag 180
gtggccatcg tcacgggcgg ggccgcggg atcggggagg cgatcgtgcg cgcgttcgtc 240
cggcacggcg cgccgctggt gatcgccgac atcgacgacg cggccgggga ggcgct 296

<210> 920
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g05b1

<400> 920

tcggctgtgg gttttccttc tccatttacc tttcttattt ggtcctaaga atatgtgtat 60
gtccatgttc atgtacgaac atggctcgag aaagcatgct cgtatgtgaa tgctatcggt 120
ggctatgtat atgcacggac gcataatatt atacaatatg ttgactatat acgttctaata 180
ggtaaccagc ataacaaaca aatgaaaaag aaccaagaga tggaacttaa acatgaa 237

<210> 921
<211> 147
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g06b1

<400> 921

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aaactcaatt gatggtttgt agcgtgtata tcccctgctg ctatggcagc ttgaactgca 120
ttttgggaac atgacgattc caatatt 147

<210> 922

<211> 132
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189006g07b1

 <400> 922

 tcgctggctg gccgactgcg gtgtgctacc ggcgatgaga tccaggagga ggtggcggcg 60
 gacagggagt cgaggacctt tttgcttgca ttctcgtgtc ttttggcaag gagaaaatta 120
 tcatttggag gg 132

<210> 923
 <211> 372
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189006g08b1

 <400> 923

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 cgaatcaaag tccgaagctg tgaagcatat caacaagtag tagcatatta tgtgttgtaa 120
 ttgtaggcag tagtaggcat atctggcttg tagtatactg taatgattat aatagactaa 180
 tgtattgttg ttttggatca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaatggt cgtctattta aggggggcgg gttttaaaagg 300
 acttcaaatt tacgaacgcg tgcttgctaa gggtaacttt tttataatgg cccgcaaatt 360
 tatttcactg gc 372

<210> 924
 <211> 466
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189006g10b1

 <400> 924

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 tccgcctcct cgccaccggc gccgaggcct ccaagccagc ttcacgtgga ttccatgcta 120
 ccggtgtgaa gaggatgtca gggcatggcc atgatgagcc atactacctc caccgcaagc 180

acatgtacaa cttgcacagg atgaagcatc agaagctgac tgcattggact tcggtgctgg 240
 gagctgtaag cattggtgtc ggtgtcccgg tcttcgcggt cgtcttccag caaaagaaga 300
 cctcctcggg ctgagcttac atgccccctc cctgggccta cttgttggat ctattttgaa 360
 tttagcattt tgtgaagcca aagctgtcac ttcaccttac tcttgttgtt tcgtgttact 420
 ccatttgcgt ttagcagatg atctgaatct taagctcggt tcttta 466

<210> 925
 <211> 272
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g11b1

<400> 925

tcgccgctgt cgacctctga aactgaaagc gccgtcgaga agatctgcga ggtgtgggtg 60
 ctggtgagcg gcgcccggga tgagctccag aggcaggagg agactgtcct gtacaagcgt 120
 ccactttttt tttttttgag ataagtacaa acgtccacgt gagcatatgt gactgtctaa 180
 ggctggttta agaagtcttg tacatttgtt gtatgttttt tttaggatca aacactccat 240
 tttattcaaa caccacaagt cgttcaatac at 272

<210> 926
 <211> 346
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g12b1

<400> 926

tcgagtaaat atgccaccgg agatgaagtc caaatggcag atgtgttttt ggcgccccag 60
 atccacgctg gtgtgacacg cttccaaatc gatatgtcaa agtaccctat tttggcaagg 120
 cttcaagatg cttacaatga gcatcctgca tttcaagccg cacttcttgc gaaccaacca 180
 gatgctctc catcccagtg aagtaatcag gaccttgatg actgtaagat ttttcatgtt 240
 tgatcgagat tctatgatgt aacttcaaag tcagatgttc atgtaagcaa agaccctgg 300
 atgagcttga cgatgttgct gtaaaagtga ataaatgcaa tttatc 346

<210> 927

<211> 410
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189006h01b1

 <400> 927

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 tgtcttttgg tcaatgaagt tgaccgtttc accgccaggg atcaaattag cttcagcacc 120
 gtccgggaca aaataagggc taaagtcggc tggatgcccc agatgttcct ggactgcgaa 180
 aggcgcaact ttgttggtcca ggcataccac agggagctgc tagagcagat gattgcgtcc 240
 ggcaggaaca cgctccgat cgcggtcgaa ccatctcgga aaatcagacc aggtagcagc 300
 aggagagctc ccccgtcgaa gaagcctgtc gtgaggcgga aaaaggagaa gaaatcagc 360
 tcgcggagggc gggccgcgaa gccggttacc tgggcgatgg atgctgggtg 410

 <210> 928
 <211> 263
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189006h02b1

 <400> 928

 tcgggctatt gtgcggagat cgtggggcgg ctgggctaga tcgctgcgcg gtacgaggcg 60
 atggaccggc gggcgccgtg ggaggcacta atgagaaagc cgcacgcggg tagctgagac 120
 cacgcagcgt acgcggcggc aagggaagca agactaacgg gcgcaggggt cgcggagagc 180
 gaagtgcgcc aatggaggcg gtcgttaccg acgcacttaa cggactgtca tcaactgcagt 240
 ggccaacggc accgagacta ctc 263

 <210> 929
 <211> 245
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189006h04b1

 <400> 929

 tcgaaattta taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaataaaaa ataatttaag agagaaaaaa ataaataaaa gtttgttgtc acgtaaaatt 120
 atttttattg aggtgtcttt agtggtgcaa cttattaact gggttgcct gtgtttatgc 180
 aaaattattt ggggtggcgtc ttttattact ttttttattt aatttggtt atataacatt 240
 ttttaa 245

<210> 930
 <211> 374
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189006h05b1
 <400> 930

tcgagacatc tctgaaggaa tcagagagga tagagaagga gattgctgaa ttgaaagaga 60
 tgaagaaaaa gatcagcaca atgacagcag acgagtactt tgcgaagcac cctgaactca 120
 agaagaagtt tgatgatgag atccgtaacg attactgggg atactagata acggcgaaag 180
 tccaagttct tttactagaa cattcaataa tacttatttg tccctctgga atctcatcat 240
 ccatacttgg gtgaattcca taacatgtgg actgggcttg ttgaaattcc aacataactc 300
 ttatctttgt gctttctggt ggacctcatc attttaaggg ttgccagctt atttcaatga 360
 aattttgtct cttt 374

<210> 931
 <211> 275
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189006h06b1
 <400> 931

gagatcttct ccaactctat tctaataaac cctcgcgcgc cgccgccgcc gcagatcgca 60
 ccaccgaccg accgaagcga tggccgcctc caccgtcgcg tacagggccg tggccgtcct 120
 cgccgtcctg tcggtcgccg cctctctcgt cgtctccgcg caggaggccc cggcgccgag 180
 ccccggtgctg gccgcggcg cagcggcgcc gtcctcgcc gcagcgctcg tcgcctccgg 240
 cgccggcttc ctcttcgccg ccgtccgcca ctgaa 275

<210> 932

<211> 460
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189006h07b1

<400> 932

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tcgcacacat tcgcggccga gggagcgagc agcgccggcc gccccgcggc accgccggtt 60
gctctcgctt cccgctccgc agcaccgccg gtagctctcg cctcccgcctc cgaggcaccg 120
ccggtagctc tcgcctcacg tcccgcggaa ccgccggtag ctctcgctc cgcgtgatac 180
aatggccaac gccgcggtcg accccgagcg caaaaggctc cggttgacgt cgtccatgtc 240
gtccatgtcg tccgtggaca ccattctccg tctcccgccc tcgccgctgt tgacgtcccc 300
gacgcgcgcc ccggcgggac acgcgctgga ggagcctccc gcgcggcaca ggccggcgcg 360
gagatccaag cccgtgagga ttttccagag catgttccgg tctctgccgg tcgtgacggt 420
gccgcgctgc gnggggattc tgacgccagc cccgaccggc 460
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<210> 933
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006h08b1

<400> 933

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cttcatcgcc ttcaagccac cgggctgcga ggagtccggc aaggcctaaa cagctcactc 120
accacgggcc acatataaag tgccattgcy gttttgtcaa ctctgacatt gctttggggtt 180
ttccttctcc atttatcttt cttgtttgtt cctaagaata tgtgtatgtc catgttcatg 240
taccaacatg tctcgagaaa gcatgctcgt atgtgaatgc aatcgggtggc tatgtatatg 300
cacatgcaca taatatatct atacaatctg tcgactatgt attcgggtaa ttaataatga 360
gaaacatctt tggc 374
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<210> 934
 <211> 479
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189006h09b1

<400> 934

agcaaagcca gaagcaccac aacctcgtat tctagatttc cagatagaca gggtcagatt 60
aaccagacga tgatgcaggc tgccgttgct tcgtcggccg tgctgcctgt cgccgtaagg 120
ggtaggccgg cggcgaggag gaggagcgcc accgttgccg gtggcagaag gattgtgggt 180
gccggcgctcc gggcatcggc cgcggcgggc cgggaggcgg actacagctc caacgtctcg 240
gtgttcccca tggaggcctg cgacctggtc ggcggcgagg cgtgcgacgc gcagatgtac 300
ccggagacga agctcggcgc cggcaccggc ggccccgctg ccgctgtcgc aagggcgccg 360
gaggtggaga gggagtacct agcctacgac gagccaaaaa cgggtgtccc agacgaggcg 420
tgcgacgatc ttgggggcga gttctgcgag gcaccctacc aaaccagcan gtaactaac 479

<210> 935

<211> 342

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189006h10b1

<400> 935

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caagcatgct acaaatcaaa tagttatttg ataaggcatt tgatgagctc ctgtaattct 120
aatctacttc ccacatttta cagctgatgt tatttagtaa tctgtagtga gcctaagaaa 180
tagtactatg gggagaagca ggcaacacgt aatatgtgtg tcatttgaga aaaatgaaac 240
ttccaacttt ccaactgttc attgcatatt acatgtaaaa gacactatct tagacaaata 300
gatgattcac caggttcaat gaaagttagc ttnnnnnnn na 342

<210> 936

<211> 61

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006h11b1

<400> 936

cgagaagaag caccaccact

500

<210> 939
<211> 524
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189007a03b1

<400> 939

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cgcgagcagc ttcaggggga gctgcgacga aaagggtggcg gctgtgcggc cggtgccggt 120
ctccgaggac gcggtggtct tcgaactgcg cgacggcccg ttggcggagc tgcggcgtgc 180
ggcggagggt cgcggcgggt gggagtgggc gcggatcatc ggcacgcccg ccagcgccctg 240
catgacaagc tactggacgg ccgtcgccac gtagccggcg gcgcgggtgg gaaggaagcg 300
ggcggaagcg cggagctgga actctatttc aacggcatac gcgcaagata cgagttgaat 360
gctcaactac tttacctacc tgattagtcg tggctaactg acacctgtgt ataaaaaaaa 420
cagaggctac ctatgtagta caaagcacia tagtacgtga tcaagttttc ttgtacatct 480
ctagcggatc ccgtanaccg ggccatccga caaaataact agga 524

<210> 940
<211> 539
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b01b1

<400> 940

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tcccttcctt cgccgccaag gctgccaccc ccatgcgcag cagcaggatg gtggtgcgcg 120
cctccctggg caagaaggcg gcgagcgccg cggtcgccgt ggcggccagc gcgatgctgc 180
tgggcgggtc ggcgatggcg caggacgtgc tcctgggcgc caacggcggc gtgctggtgt 240
tcgagcccaa cgaattcagc gtcaagtccg gcgagaccat caccttcaag aacaacgccg 300
ggttccccga caacgtggtg ttcgacgagg acgccgtgcc gtccggcggtg gacgtctcca 360

agatctccca ggaggagtag ctcaacgccc caggcgagac cttctcagtc acgctcaccg 420
 tccccggcac ctacggcttc tactgcgagc cgcaccgccg ggccggcatg gtcggaaagg 480
 tcaccgtcaa ctaagctatc ttctagtagc tccctgtcct gtccttgaga aattgggtc 539

<210> 941
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007b02b1

<400> 941

gcggccacgt gtccgtcggg cacgggcgtg tgggcaagca ccgcaagcat cccggaggcc 60
 gcggtaacgc cggaggcatg caccaccacc gcacacctt cgacaagtag catccccggt 120
 acttcggcaa ggtcggtagt cgtacttcc acaagctcag caacagggtc tacacaccga 180
 cgggtcaacgt cgagaggctc tgggtccatg ttccgtccga caaggcggcg gaggccggcg 240
 gcgacaaggc ccccgtaggt gacgtctcgc agttcggcta cttcaagggt ctcggcaagg 300
 ggatgctgcc ggagaagccc atcgtcgtca aggccaagct catctccaag atcgccgaaa 360
 agaagatcaa ggccgccggc ggcgagtcg tgctcgttgc ctaggggttct gttcccggacc 420
 gtgccccgag atctatatct gaactattag 450

<210> 942
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007c02b1

<400> 942

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 ggaggttgtg aagccccctca agtttgacaa ggcctctgct tgagagggtg gtatgaagga 120
 gtctaatacat tcctgctgct gccgctgggt gttgtatctt ggataattga attccttctc 180
 tttagaagga agcagggttt caacatcgcc gtggacacgc tgaattggca tctagtgatt 240
 ggtattttgg tatggcatat aaaaatatgt gctgagttaa tactagtcgg gtcttttgat 300
 gtcttctgtg ctttcttttt gctttttgag tctactgaaa ccgcagtact tgtgcgggtt 360

cctctatcgg tcgtccagct attttttagt actgcatctg taaaaccata tgtgataccta 420
gtaccctggt cattcc 436

<210> 943
<211> 516
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007c03b1

<400> 943

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tgcttatggt tcatcatcct cactattgcg gtagtcgtgt cggctgacga atgtgaggggt 120
gaccgacagg aaatgatcaa gcagtgtgca aagtatcaac aatggccagc aaatccaaag 180
gtaa atccgt cggacgcatg ttgcgccttg tggcaaaagg caaacatgcc atgcctttgc 240
gctgggtgtca ccaaggagaa agagaagata tggcgtatgg acacgggttg ctacgttgcc 300
aat tttctgca agaagccgtt cccacatggc tacaagtgcg gaagttacac attccctcct 360
ctggcgtagt gactctagtt taccgcggg aggagaagtg ttggctatta aattccatgt 420
gcctagcctc aaaatacctt tcctttcaga tctgtagtga agctgtgctc agaacagatt 480
atgtctagca ctttgtatga gaacgtttat gaaact 516

<210> 944
<211> 384
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189007d01b1

<400> 944

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aatctaaaat acctgaaaaa agggcagggg ttggtttccg agctgaccgt ctgaattggt 120
cgtctaggca tgatccgtgt cgtatgtttg ggtgattgag aatgcaggct catatgcttc 180
gcttcggggg gtgtgtgtgc cacattttaa tctgtcattt gcgctcctgg gacacgatgt 240
gtgttttggg gacttcccca atatgagaca tgtggcaggt gcaatcgcct gacttgctag 300
gcaaactctg ctcttgccgg gagcgcttcc ctgggcgggc ttttctcttt ttttttaagt 360

gtcgaagttc aaaagggccc cccc

384

<210> 945
<211> 502
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007e01b1

<400> 945

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cgacatcaac tacgtcgtcg acggcagggg cctgcgcccc gtagcggtcg tccgggacgg 120
cgcgctccggc agggcgatgg agctgtgggc ggaccagccc ggggtgcagt tctacacggc 180
caacgggctc agcgggggtga gggggaaggg tggcaaggtc tacggccact acggcgcgct 240
ctgcctggag acgcaggggt tccccgacgc cgtgaaccgc ccgagcttcc cgtcgcagat 300
cgttcggccg gggaaggtgt acaagcatga catggtgttc aagttctcct tctagtaact 360
actagctggt ggtatccaag gtcccgtggt tggtcgtttg tcaggcaaca cagccactct 420
tgtgtttggt gtactggtgt gaattgatcg gctgagcttc aaggggagga ataaaagcat 480
gttgctggtt caaggttttt tc 502

<210> 946
<211> 529
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl1189007e03b1

<400> 946

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gacggtgcag aaggggtccg aaaaaagaa gctggcgctg aagatcgact acacaaggcc 120
aaacgacagc ctgtcagagg tggagctccg gcagcacggc tcagaggagt ggcagccctt 180
gaccaagaag ggcgacgtgt gggaggtctc gtgctccaag ccgctggttg gcccttcaa 240
cttcgccttc ttgtccaaga atggcatgaa gaacgtcttc gacgaggtct tctccaccga 300
tttcaagatc ggcaaacctt accaaccgga atattgatcc acaccggcac tgacaccggg 360

ccaagtttca gttgatcaaa atcgctcctaa ttaattaaca cccatgtatg agtcgcgtag 420
gaaatatgtg cctgcatgag tggatagcta gtgaataaat ttaatttttg atgcacatag 480
atatggtagg agaagcaaca acnggatgtg ttgctcttcc atgcatgca 529

<210> 947
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007f01b1

<400> 947

tcgcagagtt atagcacatc tcctcgtgag gaattaggag ggaagatggc gtcgccaatc 60
caagctcgtc tgcgcctggg cagcatctcc acgccatggg acggatgatg gccgtcgcca 120
acgccggccg ccgtgccgtc gagctgcac aggagaagcg acgtctgagc cgccgtcgtg 180
ccaatggtgt ggcggagaga actgcgctcc gcatgcgcgt tggccgaata tgatgccggc 240
ctgcgtggcg gaccgtggtg ctctacgga gggaggagcg atgctgacgc tatgtggtcg 300
tcgtcgttgt acacagccgt gcctgcggaa gccgtgggtg ccgcctcaac acatccgcat 360
gcagggagaa aaggtatgag gagatgggac aaacggacga tgtacaggat ccaagct 417

<210> 948
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007f02b1

<400> 948

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aagaggaaaa cagaattggt tatggcccta attgagaaga agttgcttcc tctccgtcca 120
ggtgttcaaa ggttaattga tgaagctcta ggaaaagggg tgaaagttgc agtatgcagt 180
acttcaaacg agaaagctgt ttcagcaata gtatcgtgct tactggggcc cgaccgagca 240
gaaaagatta ccatatttgc tggggatgtg gttcctcgca aaaaacctga tccggcaatc 300
tacttgctag cagcaactac attggaagtt gatccatcta gctgtgttgt tgttgaagac 360
agtaacatag ggctttcagc ggccaaagct gctgggatga agtgcattgt aacaaaaagc 420

CCAGTTTCA GTTGATCAAA ATCGCTCCTAA TTAATTAACA CCCATGTATG AGTCGCGTAG

gggtacaccg ccgacgagga cttcgtgata gcggacgccg tggtcgattg catcggcg 478

<210> 949
<211> 100
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007f03b1

<400> 949

tcggcagaat tcaaaatgtg tactcccact attgccaaat gcagtacatg taagaacatt 60

acgatgtatt ttcagacgaa cacggttttg ttccactctc 100

<210> 950
<211> 56
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007g01b1

<400> 950

tcgatttgta tatgtttgtg cgggagtaaa ttaaaattac ttgttcattt cctggc 56

<210> 951
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007g02b1

<400> 951

tcggatggtt caaaccatgg cgtccatgac cggcctgtcg cagggcgtgc gtctcccagg 60

cccgccggc aggcgcgcca gcaggttcac cgtgagggcg tcgtcggcgg aggccgaggc 120

cgccggccgc cgcgcggtcc ttggcctcat ggccagcgga gtcgtcggga gcgcgttcgc 180

tcaggtggtg cacgccggca cgtcgcggc catcaagggtt ggccccccgc cgccgctctc 240

cgggtggactc cccggaacgg acaactcgga cgaggcaagg gacttcgacc tgcccctgaa 300

gaaccggttc tacctgcagc cgctgccacc ggcggaggcg gcggtgcggg ccaaggagtc 360

ggcccaggac atcctcaacc tcaagccgct catcgacaag aagcaatggc cgtacgtcat 420

gaacgacc 428

<210> 952
 <211> 504
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189007g03b1

<400> 952

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 cgtccaaggg tcttcttggtg tttgtctctcc tgcttgctgc atctatcctc gtcgcctcaa 120
 ctgaacaaac tcaggccaag aaggaggaga agaaagccgg cgtagagggc taccctggag 180
 gcggcgggggg aggctaccca gaccacgctg gaggaggagg aggcggcggc taccctggac 240
 acgggtggagg aggaggaggc ggcggtacc ctggacacgg tggaggagggt ggcgcgggct 300
 accctggaca cgggtggagga ggaggcgggtg ggtacccggg tcacgggtgga ggaggcggcg 360
 gcgggtaccc gggccacggt ggtggcgggcg gtggcgggcta cccaggcgggt ggcgcgggcg 420
 gctaccccggt acatggcgggt ggcgggcgggcg gtgggtaccc cggacaccgc tgangcggag 480
 gccgcagtgg atgtcactgg ggct 504

<210> 953
 <211> 317
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007h01b1

<400> 953

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 tcagctggta gatgtccagg ggtcggggttc caagtagact gcctgaattg ctcgggtagg 120
 catgatccat gaagcaagaa tcgctgattg agaaggcagg ctcatatgct ttgattcgtg 180
 agatgtatgt gccacatctt catctgtaat ttgcactcct ggcacatgat gtgtgaaaag 240
 gggacaaaac caataagaga catgtaacat gtacaattgc ctgagttgcg aaataatcaa 300
 accccttggc gggaaca 317

<210> 954
 <211> 547

<223> Clone ID: uC-tsfl1189008a12b1

<400> 956

ctttgagatc ttctccgagg ccgtggacat cgagagggag ttcgtctgcg acgcgctgcc 60
ctgcgcgctc gtcggcatga acggcgacct gatgagccag tacatcgagt tcgtcgccga 120
ccgcctgctc atggcgctgg gctgcaagaa gctgtacaac gccaccaacc cgttcgactg 180
gatggagctc atctccctgc agggcaagac caacttcttc gagaagcgcg tgggcgagta 240
ccagaaggcg tccgtcatgt ccaacctcaa cggcgggcgcc gcgaccagc acgtcttcag 300
catcgacgag gacttctgat cagtccgatg ataatatgca atctccatta ccaatggctc 360
gctcgctcgc tcgccccccg cgtttggttg ctccttagta ctagtagtag tagcggtgat 420
acatgtgtgc tgggtgctcc acaatgtttt tatttactgg tatttcgctg gctcttattg 480
gtgatgtact g 491

<210> 957

<211> 514

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl1189008b11b1

<400> 957

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ttccaggagg tggactactg ctcgaggagg gtgagggcgg tgggcaacct ggcccgcgcg 120
ggctgcggcg gcgtgcagga gcacatcgtc agggagacgt tcgtgcagga gttcgacacc 180
gccggccgcc gccacggcca ccacggcgcg ggctccggcc acttcgaggt gcgcgagagc 240
aggctcgagg aggacgtcaa caccgcacc ggcgagttcc acgagcgcaa ggagaacttc 300
gtcgtcaggg ccgatgactg agcttacacg taacggagca cactaccatg tgtgtatatg 360
tcagcagcat atgtatgtgt gatgttgcgc acagtcgtat agcgtatgca tgcgtgcgtg 420
cttggcggn c atcagcccct atcgcgcgcg cgtgcagcgc ttaaataagc gctctaactg 480
tgaaccagaa taaagcttct cgtgatatta ttnc 514

<210> 958

<211> 372

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008b12b1
 <400> 958
 cttaaactcc taactgatga cgctatcctg acccagctca aggacggatt tgctgagggg 60
 aaggatctgg cgctgacggt catgtcggcc atgggggagg agcagatctg cgcagtcaag 120
 gacgtggggc ccaggtaact tcctcggagc gagggccaag ataaacggag ggatccatta 180
 tctgtcaaat ttaagctaaa gaaagacaaa agtattaaag aaggaatgct atcgagttag 240
 acattcacct aagccggagt caagtgcagt gattgctggg ttagcatat ctgcttacct 300
 ctacctatca tccgtgacat ttgggaccct tgtaatatct cctatggttt tatatatgtg 360
 cttggtgtca at 372

<210> 959
 <211> 476
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008c10b1
 <400> 959
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 tccccgaagc cagccggggc gccgcagtgc ctatcgtttc cccgcgccgc cgccaggccc 120
 tcccgctcgc ccgccgccgc ctcgaggacg gccaggggcc gcagcttcgt cggccgcgcc 180
 gcagccgagt acgacctgcc gctggtgggg aacaaggcgc cggacttcgc ggccgaggcc 240
 gtgttcgacc aggagttcat ccacgtcaag ctatctgatt acattgggaa gaagtatgtg 300
 attcttttct tctaccctct ggacttcacc ttcgtctgcc caactgagat tacggctttc 360
 agcgacagac atgaggagtt tgagaagata aacactgaaa ttcttggtgt ttcagttgat 420
 agtgtgtttt cccatcttgc atgggtgcag acagagagga aatctggtgg acttgg 476

<210> 960
 <211> 298
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008d10b1

<400> 960

tttttataaa caaaaaaaaaa aaaaaaaaaa aaaaggaaaa tattataaag aaaaaataaa 60
aaggaacgac ccgaaaaaag ggggccgggt ttcttgccgg gtcaccgaac cttagcgcg 120
tggcgcttgg gttaccaacc ttttgccggg gggccccctg acttacaccg cggtcactgg 180
gaacaccctg attcccctaa tttcgggggt tccacactta tctgggtggg acccatggcc 240
cttttcccag gggcgcggtc tgaccgccgt tccgtacgcc ccccttttct gaacgtta 298

<210> 961

<211> 466

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189008d11b1

<400> 961

cggtaggttc cccggcgact acgggtggga caccgcgggg ctgtcggccg accccgagac 60
cttcgccaag aaccgggagc tggaggtgat cactgccgg tgggccatgc tgggcgcgct 120
cggctgcgtc ttccccgagc tgctcggccg caacggcgctc aagttcggcg aggccgtgtg 180
gttcaaggcc ggctcccaga tcttcagcga gggcggcctc gactacctcg gcaaccccag 240
cctgggtccac gcgcagagca tcctcgccat ctgggcctgc caggctcgtgc tcatgggcgc 300
cgctcagggg taccgcgtcg ccggcgggcc gctcggcgag atcgctcgacc cgctctaccc 360
cggcggcagc ttcgaccccc tgggccttgc cgacgaccct gaggcgttcg cggagctcaa 420
ggtgaaggag atcaagaacg gccgcctcgc catgttcttc atgttc 466

<210> 962

<211> 478

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189008d12b1

<400> 962

ccttaactca atgacatact agtagcactc aagacagcag gagttaatct ttattgtggg 60
cctgttgccg ataaagtatt gggctacca aaagcagatt cattacatct ggagtacagt 120
tctatggctt gcacagttga gatagttgat gatgtacaat cagcaattga ccatatacat 180

cgctatggaa gtgcacatac agactgtgtg gtcactacag atgataaagt agcagagacc 240
 tttctacgtc aagttgatag tgctgccgta ttatacaacg cgagtacaag attctccgat 300
 ggtgctcgtt ttggactcgg tgctgaggtt ggcataagta caggccgtat acatgcacgt 360
 ggacctgtgg gtgttgaagg tcttttaact acacgatggc tcttacgagg gaaagggcaa 420
 gtggtgaatg gtgacaagga tgttgagtac acccataaga gcctttcttt gcaatgag 478

<210> 963
 <211> 315
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008e10b1

<400> 963

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 tgaaaggcac aatgaggaag aggatggagt tcctagactt cgattagcgt ccatccatta 120
 gtcagtcatt ttgattgata gttggtgctc cttttgtggc cgctggtttt taatggcggc 180
 atttgctatg tttgtgggca atggaagctc ctgattgcac tgtgtcttat acttgttcag 240
 ccctaattgat gctctggacc gaggggctct tcctcagtag caatgtacca gccctgtatt 300
 cttatcttct gttgc 315

<210> 964
 <211> 470
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008e12b1

<400> 964

cattgccacg accagcggga gcacgccggc gggagggggg tggacatgga cctgccggcg 60
 acgtatgtca acatgggctc catcgccacc gcgggcgttc tcgactggag gtaccagaag 120
 gcgacagggg agaagaggcc ggacaaggtg accggattga tcagcgcgga gcaggccaag 180
 gaggccgagc gcagggaggc cgaggagcgc aaggcggagg aggaggaggg cggggccgcc 240
 tgggccaaga acaagcacgt gtatcagttc tgatcgatcg ccgccgggcg ccgcgcccgg 300
 ccgtgcatct cgcggcagat ggtgttctga acggaaaaag ttcgcgagag atgatggtgt 360

gcatgtatcc accgctcacc gtcacttgga gattcgtgct acgttttctt gttttgtaaa 420
agcttgtctt gttcagagtg ttgcatgatg tttctctttt taaaaatata 470

<210> 965
<211> 513
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008f10b1

<400> 965

gttcaagaag ttctcttccg aggacatatc cgggcagaat caggtcaagg cgtctgtgca 60
gcggaggatc cggcaaagca tcgccgagga gtaccctctc ctccaacctat tgctggagga 120
catgcttccg aagaagtcgc cgatgattgt tgttaaatgc caaaatcatc tcaatcttgt 180
ggagggtgaac aatgtccac tcttcttcaa catccgcgat ggtccataca tgccaaccct 240
gcgccttctt catcagtatc ctaacatcat gaagaagttc caagtggaca gaggtgctat 300
caagtttggt ctctctgggtg ccaacataat gtgccctgga ctcacatcgc ctgggtggtgt 360
gttggaacaat gaagtcgagg aggaacgcc agtggctata atggctgaag gcaagcaaca 420
cgcatggcg attggattca caaagatgtc agcgaaagac ataagcacca tcaacaaagg 480
aattggagtt gacaacatgc actatttgaa tga 513

<210> 966
<211> 118
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008f11b1

<400> 966

tttttcggtt tccaccgacc acccgcgccg ggagagcatg atcgatcagt cagactcgct 60
ggcgcgcgcg ggtgtcctgt tctggatagg ggagggccag ctgaaagaag aatccgcc 118

<210> 967
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008f12b1

<400> 967

cttacgcgtg ggcggggagg tcccgcgggt tcggcttcgt cacgttcggc agcgaggagt 60
cgatgcgcca ggccatcgag gagatgaacg gcaaggagct cgacgggcgc aacatcaccg 120
tcaacgaggc ccagtcccg cgcgcggcg gagggggcg cggcggcggc ggctacagcg 180
gccagcgct cggtggcgga ggctacggcg gaggaggacg ctacggtggc cgcggcagct 240
accgatgcga gcggaggcta ctgatgtagt ggcggtacg gcggccagcc cggcggcggc 300
cagcgccac tccggcggtc agtggaggaa ctgagactag aatttcccag ttatcgacta 360
tttaccgctg cgtcgctatc gacgcatggt tcttcagcaa 400

<210> 968

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g12b1

<400> 968

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccggg gaaggggccc 60
ttcgagaacc tgcagcagca cctggccgac ccatggcaca acaccatcat ccagaccatc 120
tccggccaat aaatccgtcg atttcaccga ccggggaggt ttcaggcggt ctgaattggt 180
attttggggg gctgaggatg tacaaagtgt ggaggagtag gtggacagtg caaaaatgtg 240
ttgtaatctt aaagctccgg tgggtgaaact ttgttcttgt ggattcgccc atggcttcta 300
atggaggctg tacttgtaat atcacccatg cgtgttattt taaacatggc aaaacatact 360
actagtttga agc 373

<210> 969

<211> 520

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008h10b1

<400> 969

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ggccatccgg gagtgggccc gcggggagca cctgtacgag cagatggtgc ggcgcgcgcg 120

cgccgcgacc gagtgcggcg agatcgaggc cgtgttgtgg taccaggggg agagcgatgc 180
agagtccgat gccgaaacgg cggcgtacca ggggaacgtg gagaggctga tagcaaatat 240
cagggcagat cttgggatgc cgcacttacc attcattcag gttgctctcg catctgggaa 300
taaaaggaac attgaaaaag tgagggaggc tcagcttagc attaacttgc tgaatgttgt 360
aactgtggat gcaattgggtc tgcccttgaa cgaagataat ctgcatctta ccaactgaagc 420
acacgtaaag cttggagaaa gttttgcaca aacctacatc agtaactttt tacaagcaac 480
ccgctatgag acccggaat gttatgatag ggcttgtcca 520

<210> 970
<211> 495
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008h11b1

<400> 970

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catggcgccg tatcatccca cgtcagggct cttcgtgggc atcaacaagg gccacgtcgt 120
caccaagcgc gagctgccgt ctcgaccgta cgaccgtaag gggaaaggta caaagagggt 180
gcattttgac aggaacttga tcagggaggg tgctggattt gctccctatg agaagcgtat 240
cactgagctt cttaaggctg ggaaggacaa gcgtgcactc aaggtcggca agagaaagct 300
tggtttctcac aagagagcta agcagaagag agaggagatg tcaagtgtcc ttaggaagat 360
gaggtctgct ggtggcggcg ctggtgacaa gaagaaatag aactgggcta gctggtgaat 420
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ttgacactat cttta 495

<210> 971
<211> 133
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189008h12b1

<400> 971

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tatggtagg gagcatttgc gtgattggag atgtgtgttt ttcgatttgt ctatttgtac 120
cgcactgttn gcg 133

<210> 972
<211> 490
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189009a02b1

<400> 972

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tgcttcaacg gagatgagac ccagagagtt tttttgctgg aatgaaattt cttcatgagg 120
tgcggtggcg aggcattttt ttttgtgctg taatttgtgc tttttgctgg aaccatgttt 180
tgattttgct acaacgagca tttgattttg ctggaaccgc ctgaagcaga tttgggacca 240
gttttttttag taactgattt ttgctgcaac catccaaccg gcgagcgggc cgggccggtg 300
agctgctccg gcgagcggcg acggcgagcc ggtgagcggg tccggcgagc cggcgagcag 360
cggccaccga gctgcaatcg tcgctacatg gagctagaac cgcaggggtca cgttgctggc 420
gcgaaacgca ggaggcgacg tcggcgaccg gtgacgacga cngcgacggg cggcgagggc 480
agcgacaggg 490

<210> 973
<211> 230
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a03b1

<400> 973

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aggggtgctg ctgttgctgc ctctgccctc ccttattgaa tcatgttgta tctgaacttc 180
agattcagaa gcctgtaata attgtcatgt tgtaatgctg ttgctgcctc 230

<210> 974
 <211> 623
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189009a04b1

<400> 974

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aattaaaaaa atatatatta tattttatat atatatagaa tttatttttt ttttttggtta  120
aaattttttt tctttttgta tttttttggt gtaattttat ttttttggtt gtgttttttt  180
attttttttt gcttttttgg tgtttttatt tatgtttggt tttttttttt tcgtgttggt  240
attctatttt tttgttttgt gttgtatatt ttttagtttt tttttttttt ctatttttgt  300
gtttttcttt tttatgtttt tttttttttt tatttttttt gtgtctcttt atttttttct  360
ttttttttat tttttatttt ttttttttcc cttttttttg tgattttttt ttttcttggt  420
tttctttttt ttcgtttttt tttttttttt tgttattttt atttttcttt gtgtgttttt  480
ttgttttttg tgttattttt atgtttggtt tttgtatttt ttgattgtgt tattatgttt  540
tattctattt aatttttatg tttgtttctc tggttgtttt ttttctcttt ttttatatga  600
ttttatcttt tgagttttat ttt                                     623
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<210> 975
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189009b01b1

<400> 975

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tccacagcaa ggaggttacc ctccacagca aggatacccg cctgcacctg gagcttaccc  120
acctgcacct ggggcatacc ctgctgcacc tggggcgtag cctcctgcac ctggagcggg  180
aggccctgac ggggagaagg ggctcctcta caacatcatg catggtgttg ccagcgctca  240
tggaggtggt catggctacc catctggggg ccacgggtac cccccgcagc agcatggata  300
ccctcagcaa ggctaccctc ctgagcatgg ctaccaccg cagcagcatg gctaccctac  360
acagcagcat ggctaccccc ctgctggcta ccctgggtca tctggtcaca gtggtagcca  420
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tggaagagga ggcattgggca tgggtggcat gctggc

456

<210> 976
<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009b02b1

<400> 976

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ttgtatgacc ttagaaataa gctgcagctg tatgtaaagt gccgtggaaa tgctggcggc 120
gcgtgtgttt tctgaagttt gcaagttgta acgaaagttg cagcaataaa aatgggtttt 180
cgt 183

<210> 977
<211> 499
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009b03b1

<400> 977

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agccttcgcc cgcagcggac gcggctggcg gtgccggcgg cgacgagggg cagcccggt 120
ccggccaaga aggagaagag catcctggac ttcacgtca gcgccatcgt caaggacgag 180
caggagtcca tcgagaccaa cccgctgctc aacaaggtgg acggcccggc gccctccgcc 240
ggcggcaccg cctccaggaa ggccggcggc accaccgcc gcaagaagcc cgcgcccgac 300
agcgagggcg gcggcggggt caacctcggc ggcctcttcg ccaagaaagg ctaggctgaa 360
ccagcccgcc taatacgtag gcgcgcgctt ggggtgcgtgc ttcgatctca tagctcgatt 420
tattgctgta actccatgaa aaacatcgca gagatctgca tatatgtacg tacacgcggt 480
gtgactactc aaacgattc 499

<210> 978
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009b04b1

<400> 978

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tccctcgcca tgggcaagat taagatcgga atcaacgggt tcggaaggat cgggaggctc 120
gtcgccaggg tcgccctcca gagcgacgat gtcgagctcg tcgccgtcaa cgaccccttt 180
atcaccaccg agtacatgac ctacatgttc aagtacgaca ccgttcacgg cactggaag 240
cacagtgaca tcaagctcaa ggacgacaag acgctgctct ttggcgagaa gccagttacc 300
gtcttcggcg tcaggaaccc tgaggagatc ccgtgggggtg aggctgggtc cgattacgtt 360
gtggagtcca ccggtgtctt cactgacaag gacaaggccg ctgctcactt gaaggggtgt 420
gccagaagg tggatcatctc tgccccaagc aaagatgccc ctatgtttgt ggttgggtgc 480
aatga 485

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<210> 979
 <211> 332
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189009b06b1

<400> 979

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ggtgacaaat aaagtgtcac acaacgtcgt gtgtgaccg cccaaactag ttgtttaaat 180
tctgaaataa aatacaaata aagttgtatc aagacaatgt tcatattgnc aaaaaaaaaa 240
aaaaataaaa aataaaatta aaataaagat taaaattaaa aaaaatttaa aatttatgat 300
tctctcatat aaaacccatt catcctaatt ac 332

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<210> 980
 <211> 326
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c02b1

<400> 980

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ataatgctaa taaaataatc ataaaaaaaa taaagaacga acaaatgaaa aaaaaatggt 120
cctttctagc cattgtatta tattaaaaaa aggggggggc gcttttttaa ggaccaaggt 180
ttccttcctt gggttggcga actattgttt ttttattggg gcccttaa ttaattacct 240
ggggctggtt ttacaaacgg ctgaactgga aaaaccttgg gattacccaa ataaataggt 300
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<210> 981

<211> 193

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c03b1

<400> 981

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agagaccaag gaggccgtgg ctgaggcaga gccggcggtg gtcgaggagg tgaaggagga 120
ggcggcgcct gctgccgagc cggaggttgc ggccgtcgcc gaggaagcac cggctgctgc 180
ggaggaggca ccc 193

<210> 982

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c04b1

<400> 982

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cgtcaagctc ctccacctgc tactaccag agcagcggtg gtggtatcat gagcggaatt 120
gggtccacta ttgctcaggg catggctttt ggtactggca gtgctatggc gcacagggct 180
gttgatgctg tgatgggtcc ccgtaccatt cagcatgaga ctgttgctcg tgaggctgct 240
gcatctatga ctccaatgga caacgctgct gatgacaagt gtggcaacc ttccaaggcc 300
ttccaagatt gcatcaacca ctacggcagc gacatcagca agtgccagtt ctacctgac 360

atgctgaacg agtgccggcg tggaggagca ggagctgggtg caactcttta agctactat 419

<210> 983

<211> 53

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c05b1

<400> 983

ccttaaaccg acacaggtga atatgtaaga atgaaagatt tacctaatta act 53

<210> 984

<211> 283

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c06b1

<400> 984

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cgcctttgta gccgccgcca actcgttctc gggcttcgcg accacgggtg gcgccgacgt 120

caggaagcgc gaggtggccg cgttcctcgc tcagacctcc cacgagacca ccggcgggtg 180

gccaacggcg cccgacggcc cctactcgtg gggctactgc ttcaaccagg agcgcggcgc 240

cgcctccgac tactgctcgc cgaactcaca gtggccgtgc gcg 283

<210> 985

<211> 293

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009d03b1

<400> 985

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ccatttcagg aagcatatga gcagcgaaag cttgggcaag aactccaaga tcatgggtgg 120

ccgtgaaaga aaagaagtta atagcaccgc aaagcatttt gttgatttca cagaagcaga 180

ggaagatctt gttttcagaa tgcacaggct tgtcgggaac aggtgggaac ttatagctgg 240

aagaatcccc ggaagaacag cagaagaagt agagatgttc tgggcaaaaa ggc 293

<210> 986
 <211> 272
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189009d05b1

 <400> 986

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 tcgtcgcgtg gtacctctcc aacctccccg cgtaccgcac gcccgtcagc ccgctcctcc 120
 gcggcatcga ggtcggcctc gcccacggct atctcctcgt cggccccctc gcgctcaccg 180
 gcccgctccg caacacgcca attcacggcc aggcgggaac cctcggcgcc atcggcctcg 240
 tctccatcct cagcgtctgc ctcaccatgt ac 272

<210> 987
 <211> 252
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189009d06b1

 <400> 987

 atatataaaa ctaacaaaaa aaaaaaaaaa aaaaaggaaa aattgttaaa aaattcttgt 60
 tgtcttatcc gcattagaca aaatgaagta aaaaataatt caaaatttaa gtatctttca 120
 gtatctaagt ctaaatacta ataaaaagaa gaaagaagga ttgatttgca gcaatagatg 180
 tctttcacat acaactagaa aaaagtaatt tcctttttga atggcagttc caaaaaaacg 240
 tacttcaatg tc 252

<210> 988
 <211> 462
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189009e02b1

 <400> 988

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ataaaaagag aggagaaaag gataagagaa ttctttgagt tccttgatga tgctgaattt 180
 ttggagaata tgcgctgcaa acgtcttaat tatccacgga aacatgaaat acatctccag 240
 tcggatgaag aaattgcccc tgattcagat gaagagtgaag gatgtccctg cctattatca 300
 cctgttttca tttatcagta gattgaactc agtggagctt tcgagtattt gaacttgta 360
 ccaagttaaa cactcgactt aatcttagct attatgacgt ttgtgtgtaa tgtcatatgt 420
 gaacaaggct ggaaggcttc tccaatttct tttgtgttgc tt 462

<210> 989
 <211> 323
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009e03b1

<400> 989

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 catattattg taactattaa tcggtgcaca cgagttatcc tacttgcttg cttgggttagt 180
 ttcaaaaaaa ccaaccgat gctcaacaag gaggacagac cggcgccctt cgccggcgag 240
 accgactcca agaaaagccg gcggcaccac ccccggaag aaaccacat acaacagggc 300
 ggccgtttta aagaaccaa ctt 323

<210> 990
 <211> 495
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009e05b1

<400> 990

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 agtcggacat atacagttta ggtgtactaa tccttgagac caccacaaga gaggagaatt 180
 gccgcgggag cgaaccatct gcaggacaat ttattaaaaa ggtacgtgaa aactggacag 240
 aggagaacat cgtatcagag taccatcat taaaagcaga ttgcctccga caagtaaaaa 300

aatgcatcga aattggactg caatgtgttg agactgatcg gcagaagaga cctaccatag 360
aggcaattat cgaccagctc aatggacgac atactaattg agctacaagg tcatactgat 420
ctccagtctt catggagaat aaaatttggg tcttcttcag gagacatgtg caagagggaa 480
ttgacatctt actta 495

<210> 991
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009f01b1
<400> 991

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ttcgaatggt atcactccaa tccttgctgc atatatgaac aaagatacag ttcacccgag 120
gttcttgctt acagttgatg atggtcttgc aggcacccgt tctccattac ttctgcacct 180
ggagatgatt acctgagcgt gcataccgc acgctagggtg actggacatc tgaactcaag 240
aacttgttcg ggaagtgttt cgaggcacia gttacttcca agaaggccac cctttcgaga 300
cttgaaacta cagttgtggc agactctgcg acagaagaca ccaggtttcc taaggctctc 360
atcgatggcc cttatggtgc accggcgcaa aattacaaga aatacgacat tcttt 415

<210> 992
<211> 322
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsfl189009f02b1
<400> 992

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ctggtgaggt gcaaggccaa ctccgaggcc accctcggca cctacaaggg cgacgccacc 120
ctcgtgagg gcgcctccga gagcctccac gtcaaggact acaagtactg attgatctgc 180
cttcggtgct gtggcccgtt tgggcgtccc gcttaccagt atcattgtca ttgtttggtt 240
tcctgagtcc tgatatatcc tcggatatcg aacatcggtt ttaataatat ggaacttggtg 300
ttttcatann nnaaaaaann aa 322

<210> 993
 <211> 424
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189009f03b1

 <400> 993

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 aacgacgacg gcgcggacga tccgtcgtgc tcgaactcgt ccttggccga cgaggggggtc 120
 ggcgtggccg cccggaggaa ccacggctgc gggaacggga ggctcatcaa catctgcttc 180
 ggcgcgcagg ggctcacggt ggaagactct gccagcgggc agcagacgag caagatgttc 240
 aagcagcagt gcctccgggt gtcttgacct ggcttgcgtt cggctttgcg gttcagcgat 300
 atatgtgtgt gtgtgttgaa ctcccccgcc ttggtttggt ttggtttggt ttggcgtgct 360
 gctccgcgta caagagcaaa tgtttggtga tttgctgaga taaattccgt gtatgtatca 420
 tagt 424

<210> 994
 <211> 469
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189009f04b1

 <400> 994

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 ccgccgccgc cgcccgccg aacgacctcc gctgccacag cgctcctac gccgtctcct 120
 acgcgccac caaggtgcag cgcgccagga gcaccacctc cctgtcgcgc cccgcggcgg 180
 cgaccgccgt gcagcggagc ggcagcacga ggaccgtctc cggcgccggc cccggcccca 240
 ccccgggggt gaacctccgg tgctacagcg cctcctacgc cgctcctac aagcctttct 300
 ccgacggcgc cgccaggcc aaggggcccc acgccgnac caccaccgna gccacctggt 360
 cctccgcggc ccgccgtcc ctcaacctga ggagctacac cccgtccttc tccgcattgg 420
 tcgacaacga ggccccggcc ccggccccgg ccaagacgga tgacgcgga 469

<210> 995
 <211> 457
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189009f06b1

 <400> 995

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 cagaccaact tgggtgcccta cccgaggatc cacttcatgc tttcctccta tgccccagtg 120
 atctcagctg agaaggccta ccatgagcag ctgtctgttg ctgagatcac caacagcgcc 180
 tttgagcctt catctatgat ggccaagtgt gacccccgcc acggcaagta catggcctgc 240
 tgtctcatgt accgtggtga tgttggtccc aaggatgtca acgctgctgt ggccaccatc 300
 aagaccaagc gcactatcca gtttggtgac tggtgcccca ctggcttcaa gtgtggtatc 360
 aactaccagc caccaggtgt tgtcccagge ggtgacctg ccaaggtcca gagggctgtg 420
 tgcattgatct tcaactccac cagtgtcgtc gaggtct 457

<210> 996
 <211> 376
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189009g03b1

 <400> 996

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 tccatagcaa tggctggcac tggcagcacc tggctcctgc tggagcagaa gggagctggg 120
 ccgggagcaa ggagctccca cgccatcacc ctgctcggcg gcacggccta ctcttcggc 180
 ggagagttca ccccgcgctt tcccgtggac aacaccatgt acgccttcga cctcaaggcg 240
 cagtctggt ccgccctcac ggggccggcg aggtgcccc gccacgcgtc ggcgtcacca 300
 tggcctccgt cggcgccacn ggtgtcgtgt tcgccggccg cgacaaggac cacacggagc 360
 tcaacgagct cttact 376

<210> 997
 <211> 419

<212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189009g04b1

 <400> 997

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 cctgtcgcct ccagagcaac agcagctcca gctcgagcaa gaaacaagt tagtactagt 120
 ttgatctgtg aacatgttgg ccattctcca gaagcaggtg gcgcacgcgc cgcaggagct 180
 caacagcccc cgcggcagca ccgccaagcc caagaacccc gacgagatcc tccgcgactt 240
 ccacgcccgc caccctccg acgcttctc cacctcttc gccggcgggc ccgcccctgc 300
 ctgcgtcgc gcgcagcccc gcaacctgc cgncgncggc taccagagga tgttctgcgg 360
 gcttgacga catctactgc gtcttcatgg gcacgtgga caacctgagc gcgcttatg 419

<210> 998
 <211> 379
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189009g05b1

 <400> 998

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 ctcaaggagc agagagaccg ccgcagcgag agcatggcca agaggaggtc gaagctgtct 120
 gctgccacca aggctcctgc tgctctgcc taagatgttt acagtcttcc gttattagct 180
 gtaatagtgg aagaatttct cgcactttgt tggatgatat gaatctagct gctactttca 240
 gcgttggtga gttgtaattg atgcttgttt gcgtgaacat gggtaacctta atcgtcagga 300
 agttgttact gaatgaacaa aattgcatga acttgatta ttgatgcaag ttttgtgtga 360
 aaanaaaaaa nnntaannt 379

<210> 999
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189009h03b1

<400> 999

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ccgtgttctg ggggctccta gtattcatgc tcgtggcgac aacaatggcg gtcgagtatg 120
gtgcaaggag ccataacagt ggtccttga gttggtgcga tccggcgacg ggctacaagg 180
tgagcgact cacgggctgc cgggcaatgg tgaagctcca gtgtgtgggc agtcaggtgc 240
ccgaggctgt cctaagagat tgctgccagc agctcgccga catcaacaac gagtgggtgca 300
gggtgcgggga cctcagcagc atgttgcgca atgtgtatta cgaaactcgc gtgcgtgagg 360
gaaaggagtg ctcccaggtt gccgaaggag gtgatgaa 398

<210> 1000

<211> 52

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009h04b1

<400> 1000

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<210> 1001

<211> 299

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009h06b1

<400> 1001

gcctaccac ataaaatctc cgtcgatcca ccacaccctg caatggcgtc cgcgctcacc 60
aacgtgagcc tgtctacctt cgcgcccacg gccaggggag acgtcctcgc gaggccgcag 120
gtggccgccc cccgcgtcac cttcccagc ggcacccgag gcagcggcgc cctctcctgc 180
agggcgggcg ggccggccac gccgcccggc atctccgaca agatgtcggg cagcatcaag 240
gaggcccagg agacgtgctc ggaggacgcc gccagcgggg agtgccgggc ggcgtggga 299

<210> 1002

<211> 459

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117a01b1

<400> 1002

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gcggcgctcc tcctggtgct gctgctggcg gccacggggg agatgggagg cccggtggcg  120
gtggctgagg cgcggaactg cgaggcgaag agccacaggt tcagggggcc ctgctgctgc  180
caccgcaact gcgccaactg ctgcaagacc gagggcttcc ccggcggcaa gtgccgcggc  240
ttccgccacc gctgcttctg caccaccac tgccgccagt gaccaaccta ttgcctctac  300
ttcgtccgta cgtccgccta gctgcagcct gcctgctgct atgctggctt gctcgcacct  360
ctgtgctgtg attgtagtac tgtgtccatg aataaacctc ggctgtctg tcatggcatg  420
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<210> 1003

<211> 399

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117a02b1

<400> 1003

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cagggctcatg tcgcggtatg agcgccatgt tcaggccaac aacgctcgtc gtcctttctt  180
ggtggggggc taatcccatc cagcaggtg ctcttgctct tgtggtctga gaagctgacg  240
aggagcttcg ccattgctat cccatctagt accaaccatg tatctatctt atctatctat  300
atttctaggt gatcctgtgg acatatatat gtgggattga tccgcctacc ctgatgctat  360
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<210> 1004

<211> 524

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117a03b1

<400> 1004

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caccaccacc aacgagagca agctctgcct ctacggcctc tacaagcagg ccactgtcgg 180
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ggtgaagcag ctgctggagg aggctgccgc cgcactctgt tgatcccagg ccacaaaacc 360
gcaatcgcta ttgttatcct ggtggtgcag ccatatgtgc cagcaaacac aaataagttt 420
caagtactag ttgttgtcaa gcttatcgcc gtcgtgggtg taattacgtt gaacaagccc 480
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<210> 1005

<211> 487

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117a04b1

<400> 1005

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cggggcccct ctccattctc atgctcagcg tcaagaacaa cactcaggtg cttatcaact 180
gcaggaacaa caagaagttg cttggtcgcg tgagggcatt tgatcgtcac tgcaacatgg 240
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aggctctccc ggtgaacaag gacaggttca taagcaagat gttcctccgt ggggattcgg 360
tcatcatcgt cctcaggaac ccgaaatgag gttgacgact cggcgtaaac cagaagagtc 420
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gagacag 487

<210> 1006

<211> 62

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117a05b1

<400> 1006

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ct 62

<210> 1007

<211> 408

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117a07b1

<400> 1007

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ccggggcgcat cgtgatggag ctgtacaagg acgcggtgcc gcggacgggtg gagaacttcc 120

gcgcgctctg caccggcgag aagggcgctcg gcaagagcgg caagccactg cactacaagg 180

gcagctcggt ccaccgcgtg atccccgact tcatgtgcca gggcgggcgac ttcaccaagg 240

gcaacggcac cggcgggcgag tccatctacg gcgagaagtt cgccgacgag aagtctgtcc 300

acaagcacac caagcccggg atcctctcca tggccaacgc gggccccaac accaacggnt 360

cccagttctt catcttgacc gtcccctgca attggctcga cggcaagc 408

<210> 1008

<211> 63

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117a11b1

<400> 1008

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ttc 63

<210> 1009

<211> 432

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189117b01b1

<400> 1009

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cctgaatctt ggccaaagct gctcgatgtt ctgaatctcg aggaccagca ggagatgaag 180
ttggccgcgg cgtaagtcct gcccggtggga cataccttac atagtccaaa gcataccata 240
cattttttca ataatggaaa agggataaaa aactcttgtt tccatagata tgtgtgcctt 300
tgtgagcgta attttttgac cactagcgag ctgtttattc ccgccggcgt tttcgcgagc 360
cggtgctatg taacgatcat aacgatattt tgatcttgac ttttttgagt gagcggtttg 420
tggtgcgtnn aa 432

<210> 1010
<211> 209
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189117b02b1

<400> 1010

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gtgttgttcc tccgcgcant ttcgtcgtcc atgtactttg aactttgatt aattaattaa 180
tcaatcaatt gattggtggg gaagttttc 209

<210> 1011
<211> 238
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189117b03b1

<400> 1011

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tagtcgcctt ggtcgttcta tcccctaccc gagtgtgatg catcgttatg ttcggttgtt 120

tttgagaatt gctgctgttg tgaacagctt tgggtgaactt gataaataag tgagccctga 180
attgtgtcaa ctaaaaaaac aaggtaaaaa aagcccataa acaacaagaa aggcaaaa 238

<210> 1012
<211> 221
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117b04b1

<400> 1012

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catttatctt tcttatttgt tectaagaat atgtgtatgt ccatgttcat gtaccaacat 120
ggctcgagaa agcatgctcg tatgagaatg ctatcggtgg ctatgtatat gaacggacgc 180
ataatattat acaatatgtc gactatatac gttctaattg t 221

<210> 1013
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117b05b1

<400> 1013

aataacaaaa acgggggaaaa aaaaaaaaaa aaaggaaccc caaaaaaaaa agaacacaaa 60
aaaaaaaaaa aaacaaaaaa aaaaaaaggg ggggcctttt taaagaacca aggttttctgc 120
ccggggggggg gcaaaaaataa ggttcttttt ttggccccct aaattttaat tcatgggggg 180
gggtt 185

<210> 1014
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117b06b1

<400> 1014

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ctaacgacca gagttcgatc cacgtcgggg acgaatttct ggaattctca tgagggatgc 180
 ttcttctata tcaataaaac cgtgggtgct agtgcccatg gagtttcatt ttttttt 237

<210> 1015
 <211> 510
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117b07b1

<400> 1015

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 ccgcgcccac cttcgagca ggacgcgatg gcagacgacc tttgggagaa caccaatcat 120
 ctgcccaggg agtcccgtg aagtccaagt ttgccgaatc caagctccca aagttcaagt 180
 tcttgctga gcacaggtct ccaaaacccc aggtgaacag gctgatcagc aagtacatcg 240
 actacctcaa cacgatccag gccaaagagg aggacacttt caacacccta caggaccaga 300
 acatgagcaa ggagtcgctg gcgaacgcga gcaagacgat gaacaagaag ctgcacgcca 360
 tgggtcaagtc ggcgaaagaa gactcgagcg aaatcgtgaa gctgggcggc aatgcgccgg 420
 cggtccttg ccggttcgat accgatgtca aggttctctc ccgtggatag gtagtctgca 480
 tgcaagtcct ctcacagaca gacagacagt 510

<210> 1016
 <211> 503
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189117b08b1

<400> 1016

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 tgggtctagc atgtcatggt ttcgaggagt atgtattgag gactcgcctt tatcgtctgt 180
 ttgtggaagg tcttgaccgt gcctttcttg agatttgga gcggtcaat gagggtcaga 240
 cgtctttcac agatgctctg caggaagctt acaatgagaa tccggttcca ttgcgccaac 300

atactttgaa ggctgagctg gagtgtcccg gcggtttttt gcaactggag cgacaattcc 360
gccggtgcac ataaggcatt agtaaggaac ttccagatcg aagagtccaa gaggttgattg 420
cacaggaaat taattacaag cgtgcgttgc caaagacgta tgcacagtgc gccaggaaga 480
agctcangtt gcagaagtct tgg 503

<210> 1017
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117b11b1

<400> 1017

tgagttacta aaagataaaa tgaagttgcc tgcgcgtggt atttcagtag tgtgtctatg 60
tctgtacctt gcacacacac tgtgtgtgca tatatattta tgcgacatgt atgcacgcgt 120
ccgtatgcgt gagtgaactg tcaactcett gctgtactcc agtcctagcc gatgtgtacg 180
tctgatgtgc ctgacctact tgttcaggca attaataaat agtaattgtt ttcct 235

<210> 1018
<211> 205
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117c01b1

<400> 1018

aaatgaaaaa aaaaaacaca taaaaaaaaa aaaaaggaaa aaaaaaaaaa gagaaacaaa 60
aaaaaaaaaa aaccggaaaa aaaaaaaaaa aaagggggccc accaaggga aagcaaaagc 120
aaciaaagaaa aacggggggac aaaaaacaaa acaaaaaaag gaaagaaaaa aaaaaaaaaa 180
caaccgaaaa cggggggcg ggcgc 205

<210> 1019
<211> 453
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189117c02b1

<400> 1019

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ggcgagccg ggggaggcgg cgggggnacgg gggcacgaca ggggcggggc cggaccagag 120
ggcggggaag acgaagaaga aggggatggg gatggcgggc gggctggcgg tgggcgcggc 180
ggcgggcgtg ctgggcgggc tggcgcgtggc gggcggggcg agctacgtgg agcacaagat 240
cgaggaccac gtgacggagc gcgtggagga ggacatgtac cgcggcggcg gcggtgggta 300
cgacgactac ggcggcgacg acgactacta gaccaaccat gggcccgctc ttccggtggc 360
catgcacgaa agaatctttc tttatgtttt ctgcgcgcgg aagatgccga gggtgagggg 420
gaaccaccgg accggagagg tgagaagaag aga 453

<210> 1020
<211> 314
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189117c03b1
<400> 1020

accgacccaa tgccgggcac ccacgcgcc gcatcccccc ccccccataa aaaaaaaaga 60
aaaaaaaaaa agggaccgaa aaaaaaaaaac caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaacc gggggggccg ccaaaaggcc aaagcaaccg acgcgggagg caacgaaaaa 180
ccccaaaaag ggcacaaaaa aaaaacaacg ggccgcggga aaaaacgcgg gacgggaaaa 240
acccgggggg aacaaaaaca aaaagccgag aaaaaaacc ccatttgcc agagggggaa 300
aaaggaaaaa ggcc 314

<210> 1021
<211> 361
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189117c04b1
<400> 1021

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tgtgaagtcc gggtaatca agaagaccgc aaagaagatc cgcacgtctg tgacatttca 120
ccgccccaa accctgttca aggccaggga cccaagtac ccaggatca gcaccctgg 180

caggaacaag ttagaccagt accagatact caagttcccc cttaccactg agtctgcgat 240
gaagaagatt gaagacaaca acacccttgt cttcatcgtc gacctgaagg cagacataaa 300
aaagatcaag gctgtcgtga aaaagatgta cgacatccat gccagaagg ttaacaccct 360
g 361

<210> 1022
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117c05b1

<400> 1022

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cgcgccgcac gtggagttgc ttcgcccgcg tcgtacgcgc gagcaggagc accaggagcc 120
gccccggacg cacttcgacg ggcacctctc cgtcgcgggt gtctccgtcg cgccgcgcgt 180
ggaggtgctc cgtcggcccc cataggccgc gcaagcagga gcaccttgcc aggggccgcc 240
cgggccgtgc atcgatgggc agctcgtcgt cgtggctgcc ccgtcgcgtc gtgcgtggac 300
ggcgatccgt gtcgtcacac gagaaggagc accaggcgcc gtcccagccg cacacattga 360
cgggcacctc gccgtcgcgg ctgttctcgt cgcgccgtgc gtggaggtca cccgttggcc 420
cgcatcagtc gcgcattcag gagcaccagg ggtc 454

<210> 1023
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117c06b1

<400> 1023

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tgccaccgc tgatgtccag aaccgcagcg ccgcgctgac ggaggaggcg cccacgggtg 120
agacgcccgt cgccgccgag gaggtcgcga agacggagga ggccccgcg cctgtcgagg 180
ccgaggtcaa ggcgcctgct gccccgctcg aggtcgagga gaccaaggag gtggcacctg 240
ccgccgtga gacggaggag gccaaaggag ccgtgccagc atgctgcggt cgagccggag 300

gccgatgccc ccaaagagac agaggcgcca gccgtggtcg agacagatac caaggaggcc 360
 gtgtgctcct acgtggcacg gcgtgatgct gagtcagcca gtggagtgga gtggaatgat 420
 acttcttact aggtgtggag tggga 445

<210> 1024
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189117c07b1
 <400> 1024

tcaacgagac gccacaggcg aaccaggagt acgagtcggg caaagcgatt ccgaacaatc 60
 agattattgg aaagcttgag agggcacttg gagctaagct gcgtagcaag aagtaatgcc 120
 ttgaagtagc caaaaagctc ttgtaggctg ttgctggtgg ttgatactga ataactatgc 180
 cacagaacga ctatatgtat catcatatac tcgtgctcta aaatgtgttt gtcatatgtc 240
 ccagagtaag agctgcattg aacatgcaga ctgacatgat aacctgcgtg gtttatgcgc 300
 ggtgtttggc actggctttt gcttatacaa ggctctattg tgagcttctc taaaacctt 360
 cctcttcttc cccctttct t 381

<210> 1025
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189117c08b1
 <400> 1025

agagcactat ttccaagaag gccacgtctg acgctgacga agaaggttct gacgttgagg 60
 atgatggcga ggaggacgag gagtaaata tagatgaggg aacagcagtg gtgcaaatca 120
 gcgtttgctg cttaggggtt agcttgccat gtcgatgtcc tcattatgta atgttatgta 180
 aggagaatgt ttagatgcgt actcctgggc tgtggcatgc tagagatgtc tctgtttgac 240
 tattagcgaa gaaaagctta aaacccttga ctgcttttct ttcttggact tccacagcat 300
 gtggaaacag tcattatggt ggcttgctta caaaataaac ctaac 345

<210> 1026
 <211> 263
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189117c09b1

 <400> 1026

 cccccagcc aggctgaccc ggcacagctt aacacctagc agagctgcgt agctgttcct 60
 cgggaggtgc acttgcttcg acgccggcga gtcgccatg ccgcaggtga tgtctctcaa 120
 gagcataaga tggcagagcg gggcgctctc ctgttctctc tcgaacacgc tcagcatccg 180
 ctgcagcagc acggggggccg gcgccgtcac gcgcacgga agacggctag ctccgcctgg 240
 gcggcgcggt catcacagcc acc 263

<210> 1027
 <211> 486
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189117c11b1

 <400> 1027

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 cctccctctc tctccccgca ccaccatccc cctgaattg taccactacg tgctcatgg 120
 taccgctct tggtaacat tgttcgccgc cttctcaggt ctgtgagcgg caacagcatt 180
 caagaccaca taacctacct gggcgtagc atgcacgctg aggctggag cagctgcagg 240
 atcgtcatgg actacgccga gctgcggtac aagatggacc tccatggaaa cgtcgtcttg 300
 tcgaagcagc accagcagcc cggctctgtcg gacgagcgaa gaagacacag cgcccagtga 360
 aaccaatgta aacaagttct gtatcatcat agtagcacca cgcacgcaac ttgtcattcc 420
 cctctctgct tcattgggtc tgcattccaga gaggggataa cacaaccacg ctgcagagga 480
 aaatgc 486

<210> 1028
 <211> 113
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations

<223> Clone ID: uC-tsfl1189117c12b1
 <400> 1028
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 catgagcagg catgagacaa cctggcgaac tgaaacatct tagtagccag agg 113

 <210> 1029
 <211> 184
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189117d01b1
 <400> 1029
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 aaacccccgn cccacgggnc ccanacnngn caaggcaacg aaggcccccg ccgcccgcggc 120
 gctccaccac cacgacgccg ccgcccaca gcacgcccgc ggcgccgagg ccggggccgg 180
 ggag 184

 <210> 1030
 <211> 351
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189117d04b1
 <400> 1030
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 aagaccaagg ccgataagcc cctcggactc tgaggcgggt tgacagtcga cattgacgcc 120
 aacggtagga aggtcggcaa gaagggcgtg taccagtttg ttgcagtacg gtgccaacgt 180
 cgacggctac agtccaattt aactccaga ggaatggtct gagtctggtg accgctactc 240
 cggcggaacg accgggcttt ttatctgggc cgttaccctt gccggccttc ttggcgagg 300
 gggtccttct tggttacaac accagcgctt tttccggctt agagagcatt t 351

 <210> 1031
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189117d05b1

<400> 1031

agggggggccc tatttcccc gcccggccag accggagcac gcgcagagca ttctagtcac 60
tctgggcctg ccaggtgggtg ctcatggggc cctgggaggg ctaccgcgtc gccggcggtc 120
cgctcggcga gatcgtggac ccgtctacc ccggcggcag cttcgacccc ctgggccttg 180
ccgtggaccc cgaggcggtc gcggagctca aggtgaagga gatcaagaac ggtcgcctcg 240
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agaacctttt cgttcacctc gtcgaccca gtaacaacaa cgactgggcc tttttcacca 360
actttttttc ctggcaagtg agctgcggtc agttaaacct ctaggccgac aacttca 417

<210> 1032

<211> 165

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117d06b1

<400> 1032

gacgcgcctt gttagcgggtg caatttagac cgggggggtg ggggggtttcc cccagcgtga 60
cccctcctat tgccaagtcc ctagagcccg aacttttagg ttttttcctt tccttttttg 120
caagttcgcc gggtttcccc gtaaagtttt aaattggggg cttec 165

<210> 1033

<211> 353

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117d07b1

<400> 1033

acgcactctt tgatggaaag ctgtatggcc tgtgcgggtc tggtcacctt ttcactcttg 60
aaattagaca aggatctttt cattgcatcc atggagtgcg taattcactc tctgggtgac 120
cttgggtgga acacctcaat ccttgcctag agagggggcg cgcattgtaa gggactatct 180
agtccaatgt ggcggcagac tgttgatggt gatacgggtg ttttgctcta ctgcccgtcc 240
aacaagtgat gactgttttag agcatgaccg tcctgtcgca cttgggggtct ttgaggccga 300

atgcatgttt gatgataaaa taagagggcc gcttgtgtgg ccaatcgtct 230

<210> 1037
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117e02b1

<400> 1037

cggtcgctg gggtcggtgc gtgtgtgtgc gcgcgcgcat tttgctcgtt catagacatg 60
gcttccaacg ggagcgccgg cgaggtcagg gatgtccaca gcagcgagac caccaagacc 120
ctcctcaaga gcaacgacct ctacgattac atgttgaaga cgatgggtgta cccgcgggag 180
aacgagttca tgcgcgagct ccgacagatc accaacgagc acatcttcgg gttcatgtcg 240
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accatcgagg tcgggggtcta caccggctgc tccgtcctcg ctaccgcgct cgccatcccg 360
gacgacggca ggatcgctgc catcgacgtc agcagggagt acttcgacct cggcctcccc 420
gtcatcaaga aggccggcgt cgcgcacaa gtcgac 456

<210> 1038
<211> 505
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117e03b1

<400> 1038

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cggcgctcgt catcaagtcc ctcaaggagc ccgagaggga caggaagaag gtgaagaaca 360
tcaagcacia cggcaacatc agcctcgatg acgtcatcga gatcgccaag atcatgaagc 420
ccagggtccat ggccaaggag atgggccgga ctgtcaagga gatcctcggc acctgcgtca 480

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505

<210> 1039
<211> 471
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189117e04b1

<400> 1039

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ttacaagggc atatctgatt atttgctggt tgaggaactt caaatggaag tatgtaaaac 120
tacaattatg ttcttattcc taatgcatta gaacagatct gattgcttta tcaatgagtg 180
cataaattgt catttccctaa gattgctcaa acatacgagt tcttttgcag ggacaaaagg 240
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catggttgtc acattttgtt catatggaag ttgatctcag cttgnggata gaagacttgg 360
tctcttccat aatttcttct ggtggatgac gaacatttag tctcttagga cttggccatc 420
atattttatt agaggacatg actcgaatgt gacttatgta tttcctaata c 471

<210> 1040
<211> 569
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117e05b1

<400> 1040

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ccgcacaagg acgtggagga tgtcatcaag aggtctccg ccttccgcat cgttgagagt 180
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ctcaaggaga gattggggga cgcgttcgat attggaatga aggcagcagc caagaacaag 360
tggaattgat tcgagaaggg aaacaaagac ctcgtactga gaaaggttga ggataccaag 420

gatgaattgc aagagcagct taaaagactg gagaactggg aggttttcgc tgacaaagta 480
tagatgattt gaagagaaga aagcttgtagc aaaagagaat ctatttgattt cactgagaag 540
gggctgattt gtgcaagaga aaacattgc 569

<210> 1041
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117e06b1

<400> 1041

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tcgacatgaa cacggccgag gatgccatcg tgcgcctcac ccgggagggtg gtccccggca 180
tgattgtcac cggcatggag gtcgcccaga tcgacggcgc cccgagaatg ggcccgcact 240
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ggtcgaacgg tatcgacggg acgctcaaga acgtgacccc ggcgctgcac ccggagatga 360
tcctggcggc gaccaacaac ggcgacatcg tggacgcc 398

<210> 1042
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117e07b1

<400> 1042

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cgcgtagcgt gggctaaata aaagtgttgt cgggtcgggt cgacgccag tgtctgtcag 120
cagcgagcga cgcagtgccg ctctcgccgg cctgcgtctg cgtctgctta gctggagcct 180
tgctacgggtg tgtgtcacag tgtcagttcc acctatgatc gatcgggtatc ctaaccgggt 240
tgcggttatcc ccgactacat taacacaatc caagccaaaa aggaagacac g 291

<210> 1043
<211> 382
<212> DNA

<400> 1045

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gcctgggtttt atttatttat ccagtagtg ttagtatcat gtaaaccaaa tcgccagtct 120

gaaggtgata aaattactgt attacctatc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacccaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaag gggcgccctt ttgggggtcc cctttt 276

<210> 1046

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f01b1

<400> 1046

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ccaccgccgg agggagggag ctccagccat ggccgccaag tgctaccga cggtcagcga 120

cgagtacctc gcggccgtcg ccaaggccag gcgcaagctc cgcgccctca tcgccgagaa 180

gaactgcgcg cccctcatgc tccgcctcgc gtggcactcg gccgggacct tcgacgtggc 240

caccaagacc ggcgggccct tcggcaccat gaagtgcccc gcggagctcg cgcacggcgc 300

caacgccggc ctcgacatcg ccgtcaggct gctcgagccc atcaaggagc agttcccat 360

cctctcctac gccgacttct accagctcgc tggagtcgtc gccgtcgagg tcaccggcgg 420

gcctgaggtt ccc 433

<210> 1047

<211> 130

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117f02b1

<400> 1047

cagggactgg accggaatgc ccgggttttc cacgcgcccc cctttgcttc cgccacgcg 60

accggtccgg gggagagcac tttaccccc angcaccgga aggacagcca gaaggggaac 120

gcgaaaagac 130

<210> 1048
 <211> 458
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189117f03b1

 <400> 1048

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acattttggg ctttnagaga gagatgttga agaaggaagg tttaaggagg agagccggat   60
gggcatcgcg gacgtggtgt cggagtactg ctcgctgccg cggggtcggc ggcacatgaa  120
gaagcggaag cagttccaga cggtgagat gaaggtccgc atcgactgcg agggctgcga  180
gcgcaaggtc aagaaggccc ttgacgacat gaaaggcgtg agctcgggtg aggtgacgcc  240
gaagcagaac aaggtgacgg tgacggggta cgtggatccg gccaaaggta tgcgccgggt  300
ggcgtacaag accggcaagc gggtgagacc gtggccctac gtgccgtacg acgtggtggc  360
gcacccttac gccccggggg cctacgacaa gcgcgcgcct cgccgctacg ttcgcaacgt  420
catgagcgac cccctcgccg tgccgttcgc cagggcct                               458
  
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<210> 1049
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117f04b1

 <400> 1049

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atgtgtcagt tgttgatctc actgttagaa ccgagaaggg tggatcatac gatgacatca  180
agaaggctat caaggctgca tctgagggaa aactcaaggg gatcatgggt tatgtcgagg  240
aagatttggc ctccactgac tttgtcgggt acagcaggtc gagcatcttt gatgccaaagg  300
ctggaattgc tctgaacgac cattttgtca agctcgtctc gtggtacgac aacgagtggg  360
gttacagcaa ccgcgttggt gatctgatcc gccacatggc caagactcag tagagcggtc  420
tgatt                                              425
  
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<210> 1050
 <211> 131
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117f05b1

 <400> 1050

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 atcagattca ggaatcatgg aaaaaaaaaa acataaagaa accaaactta cgaaccgtag 120
 cataacaaaa a 131

<210> 1051
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117f06b1

 <400> 1051

 ccggaagcag ctgtagactt atgtctacaa catgaagaac accgtcggcg acaaggacaa 60
 gctggcggac aagctggaga gcgaggagaa ggagaagggtg gaggaggccc tcaaggaggc 120
 gctcgagtgg ctggacgaga accagacggc cgagaaggag gactacgagg agaagctcaa 180
 ggaggtggag gccgtgtgca accccatcgt gtcggccgtg taccagaggt ccggcggcgc 240
 gcccgggggc gagggcgccg acggcggcgt cgacgacgag gaccatgacg agctgtagat 300
 ggttttaagg gaaccaattt ttgtaatggg gttagtaggg tgagagagga gacatggata 360
 attggaaccg ctgttgctta ctttgggtct gcggtt 396

<210> 1052
 <211> 188
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117f07b1

 <400> 1052

 gggggccagg tccaccagcg gagccggctg ccaaagcagt aacagctgcg gcgaacgaca 60
 gatggttccc aacggggctg ccgccgccgg cacgatcgcc aagaggatgc tcaccgactg 120

CCAGAGGAGT TCGGGAAGAT GAAGGCGAAG GCGCCGACA ACTTCCGGGT CGACTACGCC 60

ccacatcgag agcgtgcgca gggttactga cgcgccgggg agaccggcgg atcagactgt 180
acatcctg 188

<210> 1053
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f08b1

<400> 1053

cagtgaggga ggtgttggcg gcgtccgacg gccaccgcc cgcgggcatg gggcatccg 60
acagcgactc cagcggggtg ctgaacgaca cggacgcgac cggtgccacg ccaacagagg 120
aggcgccagc tccggagatg gggacgctgc tcggcgggcc cggggcggcc ggcgcggcgg 180
cggcggggca cgggcagatg ttctgcacg ggaatttcct gaaggtggag gaggacgaga 240
cggggttcct ggacgacgag gagccgtgcg gtggcttctt cgccgacgag ccgccgctgg 300
cgtggtggac cgagccgacg gatccctgga aatgaggcgc ggacagagaga gagactcggg 360
gggagacgac acctcgcgcg gggaataaaa gattagttaa agaagcaggg gcttttctga 420
aatTTTtgaa atctcgTTTT atctagtcct ttctgtaaAC cc 462

<210> 1054
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f09b1

<400> 1054

ccagaggagt tcgggaagat gaaggcgaag gcgccgaca acttccgggt cgactacgcc 60
atcagcaggg aggagaccaa cgcggctggg gagaagatgt acatccagac caggatggca 120
gagtacaagg atgagctgtg ggagctcctg aagaaggaca acacctatgt gtacatgtgt 180
gggctgaagg gcatggagaa gggatttgat gagatcatgg tgccattggc tgcaaaagaa 240
gggatcgact ggatagagta caggaagcaa ctgaagaagt ccgagcaatg gaacgtcgaa 300
gtctactgat tcttgtcttt ctactctcg acacttcctt gtgcatatgt gccgacgcac 360
ccccgattcg tgcgatcgaa gaagattgat gtacgtacat aaaagtagat aaaggggtga 420

ttatttccga tattttgtca ggttggttta tttaaagctc acatat

466

<210> 1055
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f10b1

<400> 1055

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tcagcaaggt tggtttcgtc ttccgtgagc acaatagctc ccccgatac tatgacggtc 120
gatactggac aatgtggaag ctgcctatgt tcgggtgcac cgacgccaca cagggtgctca 180
acgaggtgga ggaggtcaag aaggagtacc ctgacgccta tgtccgctg atcagattcg 240
acaacctgcg ccaggtgcag tgcgtcagct tcatcgctt caggccaccg ggttgcgagg 300
agtctggcaa ggctaaact accagttgaa acaatggcct atgtatgaag gtcttttctg 360
aacgtcactt atgtccacga ctctgctgga cgaccagagc atatt 405

<210> 1056
<211> 335
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f11b1

<400> 1056

ctcgggacga ttttatcaag ggaccggtt tgaaagatgc ccaattctac agcaatatga 60
tgtctaagat gaccaatcct tcaacagaag aaagcaaagc ttgaactgga gcagtaccca 120
aaggaaggat aggtgtcccg gcgtgcgctc atggcagggc cagattgcct gctcagctct 180
atgggctggt tagatcacac atgtgcttgg agttgctaaa aactagagaa atttcagttt 240
tgaggttgcc aggcgatatt ttttcttgtc aagaacaatg catgtttaga cctttgcata 300
ttatagtgtg tgctttccgg gaaatagatg gtctt 335

<210> 1057
<211> 263
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f12b1
 <400> 1057
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 atcttcaatg acgacagatg cgcaaacata tttgaagcat tagttggcac cttacggggc 120
 gccagaaga ggaaagtgtg cacctacgat ggtgaaatgc ttctgcaggg tgtttcatga 180
 caatgtggag ataaccctct ttccttctc cacggttgct gtcacttgaa gtttgcaaca 240
 ccggccagtc tttcacatta ttt 263

<210> 1058
 <211> 496
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189117g01b1
 <400> 1058
 ctattcctag caagctatat acctacatag nacagccatg gtccccaccg tgatggcctc 60
 gtcggccacc tccgtcgctc ctttccaggg gtcgaagtcc accgcccggc tccccgtcag 120
 ccgccgctcc aacggcgcta gcctcggcag cgtcagcaac ggtggaagga tcaggtgcat 180
 gcaggtgtgg cccatcgagg gcattaagaa gtctgagacc ctgtcctacc tgccaccgct 240
 cagcacggag gccctcctca agcaggtcga ctacctgatc cgctccaagt ggggtgccttg 300
 cctcgagttc agcaaggttg ggtttatctt ccgtgagcac aacgcattcc ctgggtacta 360
 cgatggccgg tactggacaa tgtggaagct gcctatgttc ggggtgcaccg acgccacgca 420
 ggtgatcaac gaggtggagg aggtcaagaa ggagtaccct gacgcgtatg tccgcatcat 480
 cgattcgac aacatg 496

<210> 1059
 <211> 357
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189117g03b1
 <400> 1059

agatgccggn caagagggcnc gncgagatcg ggcgcgnggc cctggtgaac tacggcaagg 60
 actacggccg cctcgtcgtc atcgtcgacg tcgtcgacca gaaccgggca cttgtggatg 120
 ctctgatata ggtcagggtgc cagatgaact tcaagcgtct ttcgctgacc gacatcaaga 180
 ttgacatcaa gcgtatccct aagaaggcaa ctttgatcaa ggccatggag gaagcagatg 240
 tgaaaaccaa atggggagaac agctcatggg gttagaagct tgttgtccag aagagaagag 300
 catcgctgaa tgactttgac aggtttaagg tcatgttggc taagattaag aggggtg 357

<210> 1060
 <211> 200
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117g05b1

<400> 1060
 ggcctgtctc agctggggtg ctttctattg gcgatccctt cgtcagccgc cgtcaaacc 60
 acgagcagaa cacggtagcg cgggcggcta aaccgggctt cttggccaaa ttctgtccat 120
 gcctcgccgg ggggggagcc accagcctga ccgacaagcc cagccaccgt gggccgtgcg 180
 cgtgaccacc ggaggatttg 200

<210> 1061
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117g06b1

<400> 1061
 ctggggcaag tgtgtggatc agtggccttc aggagatcat gaccgggtac tcggactcgg 60
 gcaaggacgc cggccggctg tcggcggcgt ggtatctcta caaggcccag gaggagatcg 120
 tggacgtggc ggagcagcac ggcgtgaagc tcaccatctt ccacggccgg ggcggcaccg 180
 tggggcgcg tggcggggcg agccacctcg ccacctgtc gcagccgccc aacaccgtca 240
 acggctcgct ccgggtgacc gtccagggcg aggtgatcga gatggtcttc gccaaaggcg 300
 accccggcat cgccgcgctc tacgacaagc ttctcgttcc ccaagacctc tggcccttcg 360
 gcgagcagct cagagccaac tacgccgaga cacagagcct tctccttgaa gttgctgggc 420

acgaagacct gctggagagc gacccgtacc tg

452

<210> 1062

<211> 305

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl1189117g08b1

<400> 1062

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cgagggcgcc ccgccgtat cggcggagcc gccggctagc accgacgct cgccggagaa 120

ggcggccccg cctgcgctg cgccggacac gacggtcagg tcccgggggt tcaggctgct 180

cggcgaggac accttcgtgc acaaggtgct cgggtggcgg aaactgctg atgtactgtt 240

atggaaggac aagaaaacaa ctgctgttgt gatcggtggc acaactgtaa tatgggttct 300

atttg 305

<210> 1063

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117g09b1

<400> 1063

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aacctgccc tcagaatgcc ggtggccccg cccgccgccg gcgccggcgc cggcgtccac 120

cccttcacct cgccctgcta catcaagatc cgcctcggca agatggcctg ccagaccgcc 180

gccgccccgt tcgtgctctc cgacgccgcc gccgagcagc ccccgtcggg cgccctcgcc 240

gtggtctttc accttttcaa ggccgatctg gagtggttcg cccgcaagcc ctgctcttc 300

ttccctccc gcggggccgc cacgtcaag gtgttcgttt acgccggccg caaggggact 360

acatgtggcg tcagctccgg gcggctgctc gggaaggcca ccatctcgt ggatctcaa 419

<210> 1064

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117g10b1

<400> 1064

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accggcgcca aggcgccccg caagcagctc gccaccaagg cggcgaggaa gtctgcgccg 120
acgaccggcg gagtgaagaa gccccaccgc tacaggcccc ggaccgtggc gctccgggag 180
atccgcaagt accagaagag cacggagctg ctgatccgca agctgccttt ccagegcctg 240
gtccgcgaga tcgcgcagga cttcaagacg gacctcaggt tccagagcca cgccgtgctg 300
gccctccagg aggcggccga ggcgtacctg gtggggctgt tcgaggacac caacctgtgc 360
gccatccacg ccaagcgcgt caccatcatg cccaaggaca ttca 404

<210> 1065

<211> 258

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117g11b1

<400> 1065

atctttccgg gttcacagat ttggaggatg tcttgcaact gtggatccgg ttgcagctgc 60
ggctcagact gcaagtgcgg gaagatgtac cctgatctga cggagcaggg cagcgccgctc 120
gccaggtcgc ccgccgtggt cgtcctcggc gtggcgccctg agaacaaggc ggggcagttc 180
gaggtggccg ccgggcagtc cggcgagggc tgcagctgcg gcgacaactg caagtgcaac 240
ccctgcaact gttaagct 258

<210> 1066

<211> 258

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117h01b1

<400> 1066

agaacganac gtttgagcgg gattgcctcc aggcaagggg ctgcgaacgg aggtgaagaa 60
gacatggtaa tgctccttct gctgccgctg gcatgtgttc ttgtgtgtgc acagtgtatt 120

ccaagtagct actaccaagt tccaatctgg ttggttgtgt aataagcacc cgtggccccg 180
ccctaggcag gcaggcgtag gtacgtgcat gtgtgcgttg tggaggcatg gtaatggtac 240
agtgagtctc gtttcagt 258

<210> 1067
<211> 286
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117h02b1

<400> 1067

agaaagtttc gcaagagaga gcaatgaaaa ccaagggact cttctgttat atacccttg 60
ttgcaggatg gcaagttgta ggatgtacgt gtaaacctga ttgtactctc ctgtctaaac 120
tacatccata atggtcttat tgcattattcc ctctgctcct tctatattcc tgtgtaagga 180
aatgtattcc tgagatgatt tgttatgtaa acctgatgtg atgcgatgga tgatttgaat 240
ttcatatgta gttttcttga ttttaatatg aaataatggt ggatgt 286

<210> 1068
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117h04b1

<400> 1068

gccagtagtg atccctcctg ttgttgatgc tgttccatcc aggacttcca agaagaaaga 60
gggatcagca tcaggttcag gatcaggttc agtgtccaag gatgtcgcta gacgggtgggc 120
aagaagggct cagaagcgag aggctgctta caaggcggct gcagagaagc acctcaagct 180
ccttgcagag gctgggccgt gggaaaactc ccgaagcggc acctgaagca ccggaattac 240
ttgtggttgg gcctccagag tcaactcgagg ttggtcctac tgcgatcgag tgatc 295

<210> 1069
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117h05b1

<400> 1069

cccgccggtt tttgcggcgg ggaaactcaa gtactcgggg cgggccgcgg caacggccta 60
gggccagggc catcagccct tcccaaccac gcctgcggat gccaagtcca agtcctcggc 120
cgcggcaggg gccttgggcc acggccacaa ctcttccccg gtcacgcggg cggccggcaa 180
gtccaaggtc tcggcgcgat cegtggcacc gggccaggcg ttctttttca accaacccca 240
cgccgtcggc ggcgctgacg catccgcacg gagccttaag cgcaagcgcg gcgcttttca 300
gaaggacctg cagcacatga tgtatgggtt tggggacgat ccaaattcac tttcaaaaac 360
agttgcactt gtagaggaca ttgttgtgga atatgttact ga 402

<210> 1070

<211> 445

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117h06b1

<400> 1070

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gagcatgccg aggcgcgggc ctcgggacga gacgcatgag accctgcgga cgtcgcagtt 120
accagcgcg catgtcaagg acaagtgggc caagaacctc tacctcgccg ggatctgcta 180
ctggcgaacg gtggcctagg ggtagcatag ccatagccat ggctgccggc ggagcgagct 240
ggatgcaatg catccttgct aataactagt aggttctatt tatccagacc tgatttttgt 300
tgttgacacc aacccaaccc ccaccccatg ccatacatgt gtattttttt atggagccga 360
gcattggtgg tcagcagcag gaggatctgc ttgcttaact ttaaatttag gtttaattac 420
tgccgcattg actgtagcgc ggtgt 445

<210> 1071

<211> 221

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117h08b1

<400> 1071

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cattgcatat tgcttgatca acacatgcc a tgacctggct attgtatttg ttatattaca 120
atggatagtc ttggcttgct tttggactaa agcctttcgg actatgtata gcttgatttt 180
ggactgaaaa aaaaaaaaaa aaaagatgaa gagaccataa t 221

<210> 1072
<211> 471
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189117h09b1
<400> 1072

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aagaagcagg accacaagga ggccaaggag gccagcggcg agaagaagca ccaccacttc 120
ggctagatcg tcgttgacgt gcggtggccg gcctcgccgc cggccgtgcg tgtgcttacg 180
ttacgtgtgt tccataaagt gagagaggct gggacgcggg cccgggtctcg tgctcgcccg 240
tgcgtgattt tctctgctg ctaagctttc gcgtgcctga ataagtgggg ttgctgctca 300
tgcagtggct cccacacctc atgcgtcggg gtgtgtcgtg tgcgggtgtg tgttttaatt 360
ttaccggggc cctgtttttg taatttcact ttattttgca agtcctcacg aaacctttgt 420
ggggccattc atctcaaatt ttggtcttat taaaaaaaaa aaaagggggg g 471

<210> 1073
<211> 91
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189117h10b1
<400> 1073

aaaacaaaac ccgaaaaaaaa caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 91

<210> 1074
<211> 56
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117h12b1

<400> 1074

tataaaaatt gtttgttggg ggcattgcttc aggacgaacg ctggttgcatt cttttt 56

<210> 1075

<211> 208

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118a02b1

<400> 1075

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tggcgccgcc gtcggcgggg atgccctagt ggtggagggt gtatgtcttc ttccgcgggg 120

tgccctgct tgtacctaga tggttactct ttccgtccat tgtcaccggc taacattgtg 180

ataatatcag tctgggtaatt gtttagatt 208

<210> 1076

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118a03b1

<400> 1076

ccttactctg ccgcgagggg ctcgttagag agtaagaaag aagctcgccg gagtccgaga 60

aggggagggg gagggaggat gctaaactgg gggccggtgg cgatcacggg gccactggcc 120

gagctgctcg cggccggggc tccggtgaga ctcccgggtt agcacgagtg gggacaggtc 180

gtcaaccaga acaccatggc cagcccttc ctgagtcaac accatccact acttgatga 240

cacagggtc tgcatatcg tcatcgtggt gcacatcacc accgactata aaccggttga 300

gtccatcaa ctctgtccgc cagcttcaat caaagtgtg tagcacttat acctttttct 360

ttttt 365

<210> 1077

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118b01b1

<400> 1077

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gggagaggcc atcaccggca agggcatcct gtcccagctg aaccttgaga ccggcatccc 120
gatctacgag gcggagcccc tctctctctt cttcatcctc ttcacctcc tgggcgccat 180
cggcgcgctc ggagaccgag gcaggttcgt cgacgagcag cccaccggcc tcgacaaggc 240
cgtcatcgcc cccggcaaag gcttcgctc cgccctcggc ctcagcgagg gagggcgct 300
gttcgggtcc accaagtcga acgagctgtt cgtggggcgg ctggcgcaac tggggatcgc 360
cttcttcac atcggggaga ttatcacggg caaggcgcg ctggcgcgagc ttaacatcga 420
gac 423

<210> 1078

<211> 308

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118b02b1

<400> 1078

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aaagataccc cctgcaggct ggagcatcta tgaactttct gtgaactgat gagaggaagg 120
acatttttgt gttacttcgg cccaaataga aattgctcca ttattgagac aggcgctaca 180
atgtaacagc agggttttca taacactata gcgaacatgt ttacatacta catatgttta 240
aagatgcttg tagtttgtga ttttttgaac catctctgaa atctgtatac atttcagttt 300
aatgctcc 308

<210> 1079

<211> 96

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118b03b1

<400> 1079

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ttggggtagc cgaagttaat gccattgggc ccatcc

96

<210> 1080

<211> 111

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118c01b1

<400> 1080

attcctaata caacagggtca acgtgggtatt tcctccctgt tgtttcaatt gcctgaactg 60

agctattgct gatattattg caactcgtaa aagggattcc attcctttga t 111

<210> 1081

<211> 381

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118c03b1

<400> 1081

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aagaccgggt tcgagaagtt caagaccgag gtctacgaca agaagcccga tttcttcgag 120

cccctcaagg ccggccaggc gcccaagtac atgggtgttcg cgtgcgccga ctcccgtgtg 180

tgcccctcgg tcaccctggg cctggagccc ggcgaggcct tcaccatccg caacatcgcc 240

aacatggtcc cctcctactg caagaacaag tacgccggtg ttggatcggc catcgaatac 300

gccgtctgtg ctctcaagggt tgaggatcatc gtgggtgattg gccacagccg ctgcggtgga 360

atcaaggctc tgctctcact c 381

<210> 1082

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118e01b1

<400> 1082

gatgataaga gagaagcaaa gcttgagatg gtgcaaactt tggcgtccat gaccggcctg 60

tcgcagggcg tgcgtctccc agggccggcc ggcaggcgcg ccagcaggtt caccgtgagg 120

gcgtcgtcgg cggaggccga ggccgccggc cgccgcgcgg tccttggcct catggccagc 180
 ggagtcgtcg ggagcgcgtt cgctcaggtg gtgcacgccg gcaccgtcgc ggccatcaag 240
 gttggccccc cgccgccgct ctccggtgga ctccccgaa cggacaactc ggacgaggca 300
 agggacttcg acctgcccct gaagaaccgg ttctacctgc agccgctgcc accggcggag 360
 gctgctgtgc gggccaagga gtcggcccaa gaca 394

<210> 1083
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189118e02b1

<400> 1083

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 catgatggcg tcctctcttcg cggccgtggc ggtcgaccgg cgcgcggcag ccccgcgccg 120
 cggcctcgtg gtggcccggg ccgccaaggt cgagggccag caggagccgg cgggtcaagat 180
 ggcagccgtg gagcccgcca ccgacggtcg tcgtgccgtg gtgtttgctg ccgccgctgc 240
 ggccttgctg gccattggcg ggggtggcgtt cgtcgagtcg gacgtcaaga aggggagttc 300
 cgaggccaag aagaagtacg cccccgtctg cattaccatg cccaccgtca agatctgcc 360
 caactgattc gggggagggg gcgaatatga tgcgggtggg cggtaaattt tgtacttcct 420
 acgggtttat 430

<210> 1084
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189118e03b1

<400> 1084

tctccacgct acgctatccg gaaccttccg gaaggttgct ttgccaccct cccttccgtt 60
 ccgtccaacg gtgtcgtcgg gacagatctg cgctgtcggc ggcggcgacg gcgcatggg 120
 cgagcaggcc gcggccgttt cctcctgcga gacgcctgct ccggcggagg tggggacagg 180
 ggtcgggcag aggtcgtcgc ccacgccgtt cttgaacaag acgtaccagc tgggtgatga 240

cccgccggtc gacgatgtca tctcgtggag cgaggacggg tcggcgttca tcgtgtggcg 300
 ccccgccgag ttcgcgcgcg accttctccc caagtacttc aagcacaata acttcttcag 360
 cttcgtgcgc cagctcaaca cctacggatt taggaagatg gtgccggaca ggtgggagtt 420
 cgcc 424

<210> 1085
 <211> 264
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189118f01b1
 <400> 1085

gtacggcgag gggcggtacg gcggtggcgg ctgttgcgag cgccttaaca cggaggaccc 60
 gccgctgcgg aacacgggtgg tgttgttccc gcacgggtgg acggcgatcc ggttcgtcgc 120
 cgacaacgtg ggcgcgtggg cgttccactg ccacatcgag ccgcacctcc acatgggcat 180
 gggcgccgtc tttgtcgaag gggcccacat gatacgcgag ctcgacgtgc caagggagac 240
 catgatgtgc ggggtgatca ggac 264

<210> 1086
 <211> 276
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189118f02b1
 <400> 1086

ccgcttcacg gccttcaagc caccgggctg cgtggagtcc ggcaaggcct aaacagctca 60
 ctcacgacag gccatatata aagtgccatt gcagttttgt caactctgac attgctttgg 120
 gttttccttc tccatttata tttcttattt gttcctaaga atatgtgtat gtccatgttc 180
 atgtaccaac atggctcgag aaagcatgct cgtatgtgaa tgctatcggt ggctatgtat 240
 atgcacggac gcataatatt atacaatatg tcaact 276

<210> 1087
 <211> 299
 <212> DNA
 <213> Triticum aestivum

actacggcgg gaggccgatg ccgccgcagc ccacggtgaa gatctactgc cgcgccaacc 180
ccaactacgc catgtccgtc cgcaacggca aggtggtgct ggcgccggcc aacccaagg 240
acgactacca gcaactggatc aaggacatga ggtggagcac cagcatcaag gacgaggagg 300
gctaccccg cttcgccatg gtgaacaagg ccaccgggca ggccatcaag cactccctcg 360
gccagtccca ccctgtgcgt ctggtgccgt acaaccaga ctaccttgac gagtccgtgc 420
tgtggacgga gagcaag 437

<210> 1090
<211> 97
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189118h01b1

<400> 1090

tgtgtttcag gatacttcag ttcgaagtgg actgttcttg ctttgtcgtt gtattttctg 60
actgcgattt caatgaaaca ataagttgct ttcattcc 97

<210> 1091
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189118h02b1

<400> 1091

ccgagttgct gaatcagcta gatggtttta gctttgatga gaggataaag gtgatagctg 60
caaccaatcg tgcagatatt cttgatcctg ctttactccg ttctggtcgc ctggacagga 120
agatcgagtt ccctcatccg acggaagaag caagagctcg gattttgcaa attcactcaa 180
ggaagatgaa cgtacatcct gatgtcaact ttgaggagct ggctcgttca actgatgatt 240
tcaacggtgc acagctgaag gctgtttgtg tggaagctgg catgcttgct ctacgcaggg 300
acgctacaga ggtgatccat gaagatttca acgaaggcat tatccaagtg caagcaaaga 360
agaagtccag cttgaattat tacgcttagt tttccttgag taatcagaac gcttgggtcca 420
gtgatgacct ctgtttgt 438

<210> 1092

<211> 235
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119a03b1

 <400> 1092

 ggtcagacat ggcacccttt aagctgaaga gttgcaaacc gacagagatt gcttctgaat 60
 tttgtgtcca agcaagttgc atgtcctcaa tatgaacctc ttctcaaatt acattatcgt 120
 gcaagttcta ttacgaatga tgatgtaatg tgtagaacag attagagtca acactatgat 180
 gttacacttg tatctactgt gttatttagt ccaatgtgat acattagttt gttcc 235

<210> 1093
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119a04b1

 <400> 1093

 ccttctctgc cggccgattt tcaagagcat tttctgcaag caatggacgt ttcgggcacc 60
 ggagctggcg ccaagggcaa gaagggcgcg gccgggcgca aggcggcgcg ccccaggaag 120
 aagtcggtga cgcggtcgt caaggccggg ctccagttcc ccgtcggcgg catcggggcg 180
 tacctcaaga agggccgcta cgcccagcgc gtgggcaccg gcgccccgt ctacctcgcc 240
 gccgtcctcg agtaccttgc cgccgagctg ctggagctcg ccggaaacgc cgccaaggac 300
 aacaagaaga gccgcattat cccgcgccac ctgctgctcg ccgtcaggaa cgacgaggag 360
 ctcggaagc tgctggcggg cgtcaccatc gcgcacggcg gtgtgatccc caagatcaac 420

<210> 1094
 <211> 339
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119a05b1

 <400> 1094

 tcatgggaga aggtggtgta taggggaatc cttgcgggag agctctggct agcctagcct 60
 ttacaggcc catgagaagc caacaacaca ttctttcagt gacatactac tccctcctaa 120

gcgtgctgct ctttcgtgac gtgtacctac gaacaagctt cttcatctgc agaacattcc 180
 gtgtgcctgt taaaacagga ataaaaatga ataacctggt tgtggagcga ataaaatgat 240
 ttccgagaaa aaaaaaaaaat cacaagacct acctacactt ataaaaaaaa gcgaatgcga 300
 ctagagagtt atcaccaaga gaagtgtttc acaattttt 339

<210> 1095
 <211> 155
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119a06b1
 <400> 1095

tggttggtcg atggggtggt gtattgtggt gctttcgacg cctcgtgtca tcttgtgatg 60
 ggcgttcttg tagtctgaac tgctaagtgt tatgtagttc ctttccggtt gaattgttat 120
 tcctgtcgca ggacgaaatg aaaatttggt tgccc 155

<210> 1096
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119a08b1
 <400> 1096

cagctcaaaa acaactggca acccttcgcg agcatgcgcg cgggggcacg caatcaatgg 60
 cgcttgacgc gatcgccctc tcctcgtcc tcgtcgccgc ggcgccggcc gttggcacgt 120
 ctagtgagga gcttgccgca gtgctccagt gccaccggc gccggcgctc acggacgcca 180
 ccgacggcac ggctttccgg gccagcctcc tcctgctcct tagcgctctc ccctccgccc 240
 ccgcgccgat gggcttcgcc tcctgcact ccgacggcgc gttcgcccgg ggggtctgct 300
 ttggtgacct caccacgtg tcttcaggct ccgagtgcgc ccggcgctg tttgacgccg 360
 ccaggaacct caccgcgcca tgcggtgccca ccagc 395

<210> 1097
 <211> 247
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119a09b1
 <400> 1097
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 caatatgtat ctctctctcg ccatecccat tcaccagcta gctcgagcta gcttgctctt 120
 ctctgctgca agctgctgat cggttctttg atctttccgg gaggggaagcg ccgggagttg 180
 gctgttctgt caggctggct cttgacatgt tcagatcgaa ggtccaggag atgatactca 240
 agaggag 247

<210> 1098
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119a12b1
 <400> 1098
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 gctgatgcgc cggacgacca gcctggcgtc catgccgtcg gtgccaagc aggtgcgcca 120
 gggcagcggc ggcggcggcg gcgacgacga cgacaaggac aggcaggcgc gcgcgcggcc 180
 gtctctctcc gtatcggccg ggcgggtggg gacgggcggc ggtgcctgcg gtggctaccc 240
 ctttcccggg cgggacgcct tcgccgggct gatgatcacc gcggcggttc tgtccgcctg 300
 cggcttctgc gccaaagccc ttggccccgg cgaggacacc tacatctaca ggtaccgccg 360
 gcgtccctgc tttcccatte tttgctcgga aat 393

<210> 1099
 <211> 514
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119b02b1
 <400> 1099
 tacgtacccg gggggatggt tgggaagtga agtaggctta cctaacggtg tccttgctgg 60
 ttaccagtt gtggatttac gagcagtgtt ggttgatggc tcctaccacg atgttgattc 120
 aagtgtcctt gcattccaaa ttgcagccag gggggccttc cggaaggat tgaggaaagc 180

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tggtccacga | ctcctggagc | ctataatgaa | ggttgaagt | attaccctg | aggagcattt | 240 |
| gggtgatgtt | attggtgatt | tgaactctag | aagagggcaa | gttaacagct | tcggagataa | 300 |
| gccaggtgga | ctgaaggagg | ttgatgcttt | cgtgccactt | gccgagatgt | tccagtatgt | 360 |
| cagcactctg | aggggaatgt | ccaaggggcg | cgcgctgtac | acaatgcagc | ttgccaagtt | 420 |
| cgacgttgtc | ccacagcata | tccagaacca | gctctctgtg | gcaaaagagg | aagctgctgc | 480 |
| caaaatgttc | attattccga | gataatatat | atga | | | 514 |

<210> 1100
 <211> 488
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119b04b1

| | | |
|------------|------------|---|
| <400> | 1100 | |
| cctatctccc | cggtgccgtt | catgggctcc tttccaatcc cgtcgcctcc ggccgcgcga 60 |
| cccggcagcg | gcagagccct | cgccgccgtc gcgccctgca actcctcggc gtcgccgtcg 120 |
| ccgtcgacgt | cgacgtcttc | ggttgcgccg gcgagcgcg gcaggagggg cgtgctcgcg 180 |
| ctgggcgcgg | ggttcctggc | ctccgcggcg ctgctgtgcc cggccgggga cgccggcgcg 240 |
| acgcgcacgc | agtacttcgc | gacggtcggg gacaagctct gcgacatgga cttcgccaag 300 |
| tccgggctcg | gctactgcga | cgtcgaagtc ggcaccggcg tgcagcccaa gcgcggcgag 360 |
| ctcatcaata | tacactacac | ggcgaggttc ccagacggga cggtgttcga cagcagctac 420 |
| aagcgcggga | ggccgctgac | gatgcgcac gcgcaggca agattctccg agggcttcaa 480 |
| caggggat | | 488 |

<210> 1101
 <211> 70
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119b10b1

| | | |
|------------|-----------|--|
| <400> | 1101 | |
| aaaaaaaaa | aaaaaggga | aatgtgaaaa atttaaacg gaaaaccgcg acaccaaca 60 |
| aaaagggggg | | 70 |

<210> 1102
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119b11b1

<400> 1102

gcagtaaagc atgagaagag ccaggtagaa gataaacttg aacaggaaaa gctgcagagc 60
 ttccacctga agaaggaact agctgatgta gagaacaaaa atgcggagct tactaaggaa 120
 ctccagtcag tccgcgatca actctccgac gaagcagcga gggcttccaa actcgaggat 180
 ggagtttcag agattcaaca acggctgcag aagatggaaa cccttgaaaa ggagttcgaa 240
 ttgcttcgga gtgaaagggg tggcgggtct gacaaatcag gttcaggcag caacaagagg 300
 cccggcagcg tgggcttccg gaggtggtat ggagatgacg agcgctgaag cagggactct 360
 tctctagggg cgcattcttc catttttggg cggtttctga tcatatatat ttttc 415

<210> 1103
 <211> 244
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119b12b1

<400> 1103

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 tacgggctgc aaggctctata attgtagctg ccgttgccac gccagttttt catcaattac 120
 cgcttcaata agtttgccat tctgtaataa gagtcacaca gccttggcac agcattcaga 180
 aattcaattc ttgtaaagtt gtaatactcc ctccgttctt caatataagg tgtattattt 240
 ttcc 244

<210> 1104
 <211> 237
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119c01b1

<400> 1104

ggatggaaag tttgggtctt gtcgggggga aaattgggaa aaaaaaacccg gaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggggggccct tttaaaggac caaagtttac 180
 ttccccgggc ttgcaaggta aaactttttt tatggggcca ccaaaaaaaaaa attaagg 237

<210> 1105
 <211> 475
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119c03b1
 <400> 1105

gctggtgaga agcctgttca agggaggatt tcacctccgc aacatgatta tcatgcctga 60
 gatgatcgga agcgtcgtgg gcatctacaa tggcaagtgc ttcaaccagg tggagatcaa 120
 gccggagatg attgggcact acctggcaga gttctccctg tcgtacaagc cggggaagca 180
 cgggaggcct ggtatcggtg ccaccactc gtcgaggttc attcctctca agtgagaata 240
 tggtcaggaa aattgtctga gatgtctgga atccagtgtt cttatcctag tcaaagttag 300
 cacctgatat accgtctgtc agtctagtgg tggagcagct ccctttgaac cttgaactaa 360
 tccagttcca gattttgaag ttatcatgag gaggatcgaa catgtttctt tccttaaagt 420
 tgtcatctgt tgcgatttgt gtgctcttct aaattttgat cagatttatt gggttt 475

<210> 1106
 <211> 53
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119c04b1
 <400> 1106

aaaaaccgga aaaaacccaa aaaaaaaaaa aaaaaagaaa aaataccact atg 53

<210> 1107
 <211> 253
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119c05b1

<400> 1107

aagagggacg gtttttaggg aacattcaaa tgctcttgcg ctggcaccga agccaggaag 60

aagtcgtgta ctgggtattg tcacatctaa gaccatttga attgttagtg gtcacgtgag 120

gcatctgtgt ttgatgcact ttacatccg agacatttga atttgcacg gtgtgttgat 180

gcaagttgtc cttcaccatg gtttgtatgt gccaccacta tggcaggatg gtttatccac 240

gctattgtgc act 253

<210> 1108

<211> 376

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119c08b1

<400> 1108

ccaccacacc ggagaggggg gaatttttagc gtttatgtcg gggcgcgga agggaggcaa 60

gggtctgggc aaggcgggcg ccaagcgcca ccggaaggtc ctccgggaca acatccaggg 120

tatcaccaag ccggcgatcc gtcgtttggc gcgtcgtggc ggcgtgaagc gcatctcggg 180

gctcatctac gaggagacc gcggtgtgct caagatcttt ctcgagaacg ttattcgtga 240

cgccgttacc tacaccgagc acgcccgcg caagaccgtt accgccatgg acgtcgtcta 300

cgacttaag cgccagggac gcacctcta ccgattcgga ggctaggta ccaccaccag 360

attagagtgt ctgggg 376

<210> 1109

<211> 402

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189119c09b1

<400> 1109

ctcaccctcc cgtgcttcac gacccttgt tatcatgtta caccaccgac ccggccggtc 60

cggaccggtc cggccccggc tccggaagtc tccagaacct gcacaaccac cgnacgcgg 120

gcccgcatgg cagggtcacg cccccacgc gcctatgcct tcggcgagac ctctttctc 180

cccctcataa ataccgcgcc caagcctcgc cgnagatcga ccgggctcgc cctctctggt 240

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ttgtactcc tgggtgctgct aatcggactc ccggccgtcc ccgccgtcgc cgccaacatg 300
accgaggtct gcgtaaggc cgccgttggt caccgagaca cgctccgaga ctgttccttc 360
tcgcagaggg tgctgctcac gctggaggag aagaaggtgc cc 402

<210> 1110
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119c11b1

<400> 1110

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acgtcctcgc gctggcgctcc ggcgggcggt cgcaggcgcc ggcgggggg cctgcggagc 120
cggcggggga ctgcggctcc gcgctgacgg gccttaccgg cttgcctccc ctacattttg 180
acagggggcca ctcatggcaa gcctgccaaag gagtgtgctg ccagtttcaa ggccgcgctt 240
gccagccccg ccagcgctgt ctgccatttg caacgccttc tgtaaggact accggatcct 300
caagaacctt acccgcgcca agggccttcc cgccgtatgc ggtggcaacc cggtcgtcct 360
tatcaactgc agcctgaaac tgcccc 386

<210> 1111
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119c12b1

<400> 1111

gcctcctcct agcaagctat gtaccttcat agttcagcca tggccccac cgggatggcc 60
tcgccggcca cctccgtcgc tcctttccag gggctcaagt ccaccgccg cctccccgtc 120
agccgccgct ccaacggcgc tagcctcggc agcgtcagca acggtggaag gatcaggtgc 180
atgcaggtgt ggcccattga gggcatcaag aagttcgaga ccctgttcta cttgccaccg 240
ctcagtacgg aggcctcct caagcaggtc gactacctga tccgctcaa gtgggtgcct 300
tgcccttgagt ttagcaaggt tgggttcac ttccgtgagc acaacgcac ccctgggtac 360
tatgatggcc cgttctggac aatgtggaag ct 392

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<210> 1112
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119d02b1

<400> 1112

tttaacaact gagcagtttt gtgccgatgt tgttgctcac catgatggcg tccctctccg 60
 cggccgtggc ggtcgaccgg tgcgcggcag tcccgcgccg tggcctcgtg gtggcccg 120
 ccgtcaaggt cgagggccag caggagccgg tggccaagat ggcagtcgtg gagcccgta 180
 ccgacggccg ccgtgccgtg gtgtttgctg ccgccgctgc ggccttgctg gccattggcg 240
 ggggtggcggt cgccgagtcg gacgtcaaga aggggagttt ccgaggccaa gaagaagtac 300
 gccccgtct gcatcaccat gccaccgctc aagatctgtc acaactgac gtggggaggg 360
 ggcgatgatg atgcgggtgg gcggtaaata ttgnactatc gtccggttta tcttttggtg 420
 aagttcgagc tttgatgcat a 441

<210> 1113
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119d03b1

<400> 1113

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 atgccagggtg ggccatgctc ggcgccgccg gattcatcat ccccgaggcg ctcaacaagt 120
 tcggcgcaaa ctgcggtccc gaggccgttt ggttcaagac tggcgccctt ctcttgacg 180
 gcaacaccct caactacttc ggcaacagca tccccatcaa cctgacctc gccgtcgtcg 240
 ccgaggtcgt cctcgtcgga ggcgccgagt actacaggat caccaacgga ctggaatttg 300
 atgacaagct ccaccccggt ggccattcg acccgctcgg actcgccacc gaccccgacc 360
 aggcggcgct gctcaagggt aaggagatca agaacggacg gctggtcatg ttctccatgc 420
 tgggctttt 429

<210> 1114
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189119d04b1

 <400> 1114

 ggggccgttc tgattctcca ccaggacggg acccccatca ctgctgagaa gatcgcgacg 60
 gtggtgaagg ctgccgaat caatgtcgag gcctactggc ccgcgctctt cgccaagctc 120
 ctggagaaga ggagcgtcca tgacctcatc ctttccgtcg gatctggtgg aggcgggtgct 180
 ccagctgctg ctgctgctgc cccggctgct ggtggagctg ctgccgctgc agagaagaaa 240
 gaacagaaaa aggatgaggc ttatgaagag agcgatgatg acatgggctc tagcttgctc 300
 gactaagcag ttcagattcc gttctcctgt ggaatcttct atgcttagga ttactcatct 360
 tatgtgctt 369

<210> 1115
 <211> 233
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189119d06b1

 <400> 1115

 gaccgatcat actagactgc tattgagttt ctactacttg ccacctgctt gttattaaaa 60
 tggttttgca tataggagta tagtagtact gtctatggac ttgagtctaa cagggatgca 120
 tatcgccga caaagtaagg caatgcgatt atgcactcgg taaggattcg agaaaccggc 180
 agccattttt cagttatgaa aagacggcgc acagagtcct cttccggttg aaa 233

<210> 1116
 <211> 280
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189119d07b1

 <400> 1116

 ccacaacaat tttcccagag caagtgaaaa ttttaaagcg tttctttcaa ncacaagaac 60

cttncccata caaacaatat ccacaacaac aaccatctgg gagcgacgtt ataagtatca 120
 gtggcagatg aaatgaagag atgttatact agacgggtga atcatcattg ttagtaaatg 180
 gagcataatg taacgatgat aaataaagtg atgtgcacca tcatgtgtaa cctcgacctg 240
 tactagttca aacatgggaa taaaagacaa ataagttctt 280

<210> 1117
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119d08b1

<400> 1117

agccgaagca ctagaggggc gattgctcgc atggcactgc tcgtcgtggt cgccgtgctc 60
 gcggcactgg ctgtggcgga gatggcgtct ggggcggtga cctgcggcga cgtgacgtcc 120
 gccatcgcg cgtgcatgtc ctacgcgacg ggggaaggcgt tggcacccgc tgcgggggtgc 180
 tgcagcgggg tgaggaccct gaacggcaag gcgtccacct cggccgaccg gctaggcggc 240
 gtgccgctgc ctcaagaacc tggcgggggt gttcaagggc attagcatgg gcaacgccgg 300
 caccattccc ggtcccacgc gttcgctacg cgttccgttt aatatttaaa tttttctggt 360
 tgttttttct cttcattcct tttccttatt attcctatat tt 402

<210> 1118
 <211> 315
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119d09b1

<400> 1118

tcgacaacct gcgccagggg cagtttttca gctttatggc gttcaggcca ccgggccgcg 60
 aggagtctgg caaggcctaa acttcgagtt aaaacaatgg cctatgtatg attgttcttt 120
 gtgaacttca cttttgtcca ggactctgct ttccgaccag agcatatttt tccttcggta 180
 tgatctgtgt ttgtacgaac ataggtttgt ggagcatgca tatgtaaatt ctagcaccgg 240
 ctacacatat tcaacaccag tgtgatattt attatattac aacaagcgga ccattgtcct 300
 gctggttaatt ctcg 315

<210> 1119
 <211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189119d11b1

 <400> 1119

 ggggaaaggc gatggaaggg gagatttttaa agcttaggcg cggactggga gcagaaaact 60
 ccaccccgac ggaggccatt ccggttcgct gccggcccggt tcctccttct ccttgccggc 120
 gttcccaaga ggtcccatgg aggatgacgg tcctagccgg agcggcctgc cgccggtcgg 180
 ggagtgcgaa tggagggagg agctgtggca gcagcagtc caggtcgagg cgctgcgcga 240
 cctgctcgtg gtgggtcaagg ttcggatgcg gcgcttctag gacgatttca gccgggagct 300
 ctagcacctg tgctcgatgg tcaatgacca tcgccaccct gctggcggtc cttaaattca 360
 atgccaggat ca 372

<210> 1120
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189119d12b1

 <400> 1120

 tcgaccgaga ccaccggggc gtctatcaag attagatcgt gatgaacaag atcgctgcg 60
 ccgnccttgt cgccgcctcc gccaccgtgg ccctcgccgt cgacgccccg gtcattggccc 120
 cggcccccg cgccgtcgtc gtcgggtccg tcgccgcctt cgttcgggcc gttggcgccg 180
 agctcggggc caccgtgctc tccttcttcg cctactacct gcagtaagcg cgccccggcc 240
 cgagtcagtt tgcttcgagg aggaggaagg caggaagaag aagatcacta aattcgcttt 300
 gtatggctct acgctacgct gattcaaggc gcgcgcgtgc gttttgaacg atgcatgcgc 360
 gtgctttgat ttatatgtct tgatttaata ttgtttcttc ttcctt 406

<210> 1121
 <211> 173
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119e01b1

<400> 1121

caggcaccgcg gtgggtgtttt ctgggggtcct ttcgaacgac tgcgcggtcg accaaacaga 60

caagcacagt atctgcgaag actcattcga gtcggcaacc tatgttagta tatcggatat 120

ggccatgaat ggggctcgat tgggctgctc caagcgacag ctgtaggtcc tgg 173

<210> 1122

<211> 115

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119e02b1

<400> 1122

ggggcggcag ggagcgggtg acggactgtt ctgtgtcatg ggatccacca caatggggac 60

ttaagcccc ctggcaagaa acttagccac caccgggggg tccccgctgg ggttg 115

<210> 1123

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119e03b1

<400> 1123

tgacgtacgc gagcaccaac tagaaggcca agtggaccct ggacggcatc cagatcgaga 60

tgcaggccac cgaccccagc gaaatgagcc tcgacgtgat caaggagcgc gcgcactaag 120

gcagatcatc caatgccttc gcaatatgga tttatgtcaa atatagattt ggcggtgtga 180

ctcttgaaac tttcttgatg atttgtggct ttgttaccgt gtcgaaaggc cctcctcccg 240

tggcccgtgt gaccacggag ggcttgctct atcatgtaat ctgttctttt tcttgtgccc 300

attgatatgc cgggccttat gctgctgcac tgcactgttc ttccaagtta cgggtataaa 360

taattaaatg ttctgtttgg attc 384

<210> 1124

<211> 73

<212> DNA



aaaaaaaaaa aaa 73

<213> Triticum aestivum

| | |
|-------|------|
| <400> | 1125 |
|-------|------|

| | |
|--------|-----|
| gatcag | 486 |
|--------|-----|

<213> *Triticum aestivum*

| | |
|-------|------|
| <400> | 1126 |
|-------|------|

acactgccaa ccacgctgga tttctgaaca aaaaaaaaaa gctgggcagc gggttttagat 180

ggatccacgc tccgataggc ttgcatcgcc atgcactccg tctgctctag cgcccgggtgg 240
gtctgtttta gtgac 255

<210> 1127
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119e10b1

<400> 1127

gccgaacctg accggggagg gtggggaaaa taaaaatgct gagccgcgcc gcccgccgcc 60
tcgcgtaccg cgccgacgtt gtcggcagcg gtcctatgag ccgcagggcc ctcgcgacgg 120
cgcaggcgcc cgcgaggcg ggcgaggacc ccgccttcct ggaggcgtgg aagaaggatga 180
ccacaatcat tgagcccccc cagacgcca tgctcggtcat gaagtcccg cgcgccacgc 240
cggcctacat tccctccaag ctcaccgtga actttgtcct cccctacaag tacgagatca 300
ccaacaagga ggttgacatg gtaatggtac cggctacaac tggactgatg ggttttttgc 360
caggccatgg tttcacaatt gcagagctca agcctggt 398

<210> 1128
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119e11b1

<400> 1128

ctggatgact attaaggggc acatttttga ttttaacgct atcttctgga atcggctagc 60
tagctgtatg atagcttcag gatgtgatga tggcagtttc tcaattcgcg atcttagatt 120
cataaaggat gatggcgcca tggttgcgca tttcgagttc cacaagcacc cgattacatc 180
tgtggaatgg agtccacatg aagcatcaac tctggctgta tcatctgctg atcatcaact 240
cacgtacctg tccctacgat taattttttt ttcgattaag tgctgctatc ctacgacatt 300
tcgaattctc ttgctgtaac atgctggatt gtttgtcttc agaatttgag atctttcatt 360
ggaaaaagat 370

<210> 1129

<211> 472
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189119f01b1

 <400> 1129

 gacaactccc tcgcgtcgtc tctccggggc gacccggggg ccccaaagtgc ctccaccgcc 60
 ggccggcaat ctgcttctcc cctgccgccg ctgccgccgg cccttgccgc ggtggcgggc 120
 ggccccgttc ctcgaagggg agggggacct ccggccgatg cgtggggcgc ggcgggcgat 180
 cttgggcccc gggggcgccg cctcgggtctt ggcgacgacg gctgctgcgg ctgcttgggc 240
 ggcgcggtgg ttgggcctgg ggcggtgctg ctgcggccat gctgggtgct cgcggtggag 300
 gaagctcggc cctcctgctg caccgcttc ttcggcgcca cgactccggc gacttcgcgg 360
 gcttgctcgc ccgaggtcct tctccagctg gcctaggcgg gtgggcagcc ccctggtctg 420
 cctgtgcgag ctcgtaaccg tggcccgtt gtcgatgggt ttgccggctc gt 472

<210> 1130
 <211> 481
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119f02b1

 <400> 1130

 tggggtaccc cgcagctcca gaaccaggac acgcccactg tatacgcaca gctcgaccgc 60
 aatggcgctc ctcgtcgccg tccagccggt cgccgtgagg ggccctggccg gcagctccat 120
 ctccggccgc aagctcgccg tgcggaccgc ctccgccgcc gtctcccgtt ccacgcgcag 180
 ggctcgcggg gcggcggtgg tggccaagta cggggagaag agcgtctact tcgacctgga 240
 cgacatggcc aacacgacgg ggcagtggga cctgtactgc agcgacgcgg cgtcgcccta 300
 caacggcctg cagagcaagt tcttcaacac cttcgccgcg cccttcacca agcgggggct 360
 gctgctcaag gtgctgctgc tcggcggcgg ctcgctgata gcctacgtca gcgccaccgn 420
 ctcccccgac ctgctcccca tcaagagggg actcagctgc cgtccacccc gggaccacgc 480
 g 481

<210> 1133
 <211> 531
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189119f05b1

 <400> 1133

 ccaagtcacc tgggggaact tccatgagcc gttccacttt tgcggaatct caatgcacac 60
 catcaagcga gatctctgtc aataccaaca agagcaagag caagagcaaa aaatcgaagt 120
 ctcatgcaag cagaaggctg ctgactagcc caggcagcaa ttcagtcgga cgaagcagca 180
 ccgataatct gtcaaaggat tataagcatg cgaagagaga gagctcaggc aaggttgcca 240
 agtctgacaa cgctgatcaa gagcctcgca tgagcaacag cactccattg ccaagttaca 300
 tgcagttcac agaatctgca agagcaaagg cggtctgtct atccccaag ttaagcccag 360
 atgtgcaaga caacaacccg agaaagaggc attctttgcc catcacaac ggtaaaaacg 420
 aaacatctcc tcgcatgcaa cggtcattct cccaagccca gcataatgtg aagagcagcg 480
 ttgctgttcc tcacaatcca tctgataaga ggtggaatat atgatggatg g 531

<210> 1134
 <211> 338
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189119f08b1

 <400> 1134

 acgaagacag gcaacgagag gcgtgagcgt ttataatggc attaaggggtg gtgtactcca 60
 acaggatccc gctggtgcgc gccatggaga acctcctggc cgcgtcctcc gggctctgctc 120
 tcaggccggc tgccgtcgcc ggcggcgctc gcgggtacaa cgccggcgcg cccctccgta 180
 gctacgaccg ggacgaggcg gtcgagcgca gccccgcgg cggcgcgcgc gagcgcgacg 240
 tcggcgtgcc cagcttcttc ttagatgtgt tccgtgatcc gttcagcgcg ccgcagagcc 300
 tgggccggct gctgagcatg ctggaccacg tgtcggcg 338

<210> 1135
 <211> 76
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189119f09b1

<400> 1135

tcgtgagaga gaagagaggg ggcgatgtag cttgttgggc tcaagttggt ggacggagct 60

cacgaggact cgatct 76

<210> 1136

<211> 113

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119f10b1

<400> 1136

agagaaactt gaaatccctc tcttgcttgt cgtgacactc agagaatagt gaaaccattt 60

gatatcctca ttagtcagct ttcattttct tgaattgcat gtttgtaatc tac 113

<210> 1137

<211> 292

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119f12b1

<400> 1137

ccggcgacag cccaatgggc acgcttgagg atttgtgtgc gtctggcgac cgctacgccg 60

gcggaacgac cgggcttctt atctgggccg tgaccctcgc cggcctcctt ggtggggggcg 120

tgctcctcgt atacaacacc agcgctttgg ccggctaaga gagcatctac gtgtaacaca 180

gggccggggtc tctgcttgca tgcacgtctc tgtaatctac gtagctacct cctgtgaatg 240

tatgtgatca acgatgcaca gtgattgatt cgaacagatg gcttatgttt gt 292

<210> 1138

<211> 158

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119g01b1

<400> 1138

aaaaaaaaa agaaaaatta taaaggaaaa attaaaaaaaa aaaaacagaa aaaaaaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaagg ggggggcctt ttaaaggac caagtttacc 120
tccccgggct gggcacggca aaactttttt ttgggggt 158

<210> 1139
<211> 413
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189119g02b1

<400> 1139

atgtggcaag gttgctttta tactaagctt tgacgagaac atggaccgag acgtcaagtt 60
cttcacggag acagaggaga acaaccagat gcgtggccca aggactgccg tcccgatttt 120
tctctgactt cagttgtaca attttagaag tcgctgtttt aagctgtaag ggttaaaaga 180
cgaaccggag gtggttattg ttgtaggggt cagatgatag tccaatctga tgcgttttat 240
ttctcgcgct tcttttaacc acatgtacaa tagatccttg ggagcatcat tactcctgta 300
ttccttctat gacagtgtcc aattttgctt ctttttattg tttattatta ttattggtat 360
acatgttgta cgggcgctat ttatatgtca catatatgca tttggcaaca tac 413

<210> 1140
<211> 465
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189119g03b1

<400> 1140

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cctcggggcg cgtctcgagc tcgccgccg cgctcgtgtc gtcgccgttc ctcccgcggg 120
tggccggcgc gatcgtcgcg aggaggggag gacgcggggc ccgtcggcg gcctcgcccc 180
tgcgcgcgca ggccgccgga gccgcgaaga agaactgtct ggtcgtcaac accaacagcg 240
gaggccacgc ggtcatcggt ttctacttcg ccaaggcgct gctcgcggcg gggcatgccg 300
tcaccgtgct caccgtcggc gacgagggt cgcacaagat gaagaagctc gcgttctccc 360
gcttctcgga gctgacgagc gccggggcca agacggtgtg gggtgacccg gcggacgtct 420
gcgcggccgt cggcggagcg ttcttcgacg tcgtgctgga gaaca 465

<210> 1141
 <211> 494
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119g04b1

 <400> 1141

 tgggCGGgacg cgggggctat tccaggggCG attccgtgac gccgCCaggc cgcCGtccct 60
 gagcaatgga gtcgaggaag ccgcagcgct ccgctctcgg cgacagctat gtggTccccg 120
 gcgacgtcat cctggacctc gccgacatga ccaaccagac catcaagctc ggCGccggtc 180
 tgCGccagga ttgtgacact atccaggcaa ctagtgctgg gaggcttCGa ctgtccaagc 240
 ccaacaagta ctgggtggag aactcccaga agaggtatgt accttctgta gaagatacgg 300
 atcttggtat tggagttgac accaaaccag ataacttctt ggtggacata aaggggccta 360
 atttgccctt tttaccagtt ctttcatttg aaggtggtac aaggaggaac ataccaaagt 420
 ttgagatggg tacattaata tatGCCagaa tggTgaaagc aaatagcatt atgaatgcag 480
 agctttcatg catg 494

<210> 1142
 <211> 123
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119g05b1

 <400> 1142

 tgtacaaggg cGaggctttc ttgggcatct cggagtGCCg gccCGggcac ataacgcacg 60
 aggagtggaa ggacaagtgc acGCCaaggt ccatgagCGa ggCGgCGggc cCGgCGacca 120
 gcc 123

<210> 1143
 <211> 246
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119g06b1

 <400> 1143

ttaggtccta tttggttcgg ttgtgtggat ttttaaagc agctgcgaaa aagttgctgc 60
 gaaaaacagc tgtggaaaat ctcatgtgaa aaagatgtag gtcatttggc aaactagctg 120
 atatagcttt ttcaaatttt ggccctgcagc ggaatcattt tagaaagcac gtccctgggtt 180
 gcttccgctt ttggttcaga ttttgacagc ggatttctga aatcggattc tgttgggttt 240
 gacctt 246

<210> 1144
 <211> 423
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119g07b1

<400> 1144

ccgcccacgc gtccggagga accctttcga cgtgcatggg gacagcagtg ctgcccgtcg 60
 cccacaagct ctcgctcgcc tcccccttcc tcccgcgcca ccgcggggcc tgccgcccc 120
 ccgcccagca gcactgccgg cgccggcgcc atggggcggt ggtggcgtag atggagccgg 180
 acccgaactc gccggcgggc atcctggggc gcatcgctcg ggccctcccc gtggtggggc 240
 tcgtggcgcg catcctgagc gacgacggcg gcgtcgggcg cgacaccgtc gacttcgccg 300
 agttccgccc ccgcgtcagc aagaagtga ccgatcatga ctcccaggcc ttctacgact 360
 tcaacgaccg ccgcggcaag gtgggagacc ccttctacgt gctgctctgc tgctggctgg 420
 ccg 423

<210> 1145
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119g08b1

<400> 1145

cccacctcac ctctccgtg ccttttgccg acttttcgtc aaggttccgg cggcgatggc 60
 ggcgaggctc gcgcagctgc ggaccaaggc ggcgcaggcg gcggaattcg cctcgaagca 120
 cggcggcgcc tactacaagg aggcgatgga gaagaacaag cagtacgtcg tgcagcctcc 180
 ctccgtggag aagtgccagg agctcttcaa gcagctcttc tacacgcgcc tcgcgagtct 240

accagggccgc tatgaagcat tgtggaaaga ggttgatggg gtcaagcagc tttggaagaa 300
 caggaaggag ctcaaggtgg aggaccttgg aattgcaaca ctgtttgggg ttgagcttta 360
 tgcattggttc tgcgtaggcg agattgcagg cagaggattc accttaaccg gctataaggt 420
 ctgaatta 428

<210> 1146
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189119g09b1
 <400> 1146

ccatcttctt cctccccgga actcgttgct ccttccagaa ccgaagctca gtcccggtggc 60
 cacgcagaac aaaatgcagc gagcaattca agctatcgga tcacatggca gtgtgctcaa 120
 atctgctgtc ctgcaacaca tcagtgttgt gaagcctgct atgctgcctg ctgtgttccc 180
 gcgcttcatt tcagtatcac ctgctcaaata agaggagagt ggatttgaga gcagcactgt 240
 tgcggacatt ttgaagtcca aagggaagag tgctgatgga tcatggctct ggtgcaccac 300
 tgatgacagt gtctatgatg ctgtcaaata gatgacacac cacaatgtgg gagctttggt 360
 ggttggttaa cccggggaag ataaattaat tgctggcatc gtcacagaga gaga 414

<210> 1147
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189119g10b1
 <400> 1147

cacaacttag tttctgggac gcttttgata ttatcatgga ctctggtgga agattgtgtt 60
 ttgcaatttg agtcattttg ttacctttta gtcgaatatg tattctgcac tttgacattt 120
 gaattctttc aggtgcttag ataaggctgc tgtagtctta ggggaccaag agataaagtg 180
 atgcggagca tccttccatc atcccatgg actctacagc aacacatcca acccctcaag 240
 gacctatgac tcgagcacgt gcaagagctc ttgaaaccga ggtgacatca ctctctcac 300
 aattcccttt cgattcacat gagacatggt tactacctca aatggaaacg ctatgcatac 360

tcaggtagca aggagttcac cgtgaagaag ctaggaagca aggagaaccg gaagcgggaag 420
 acatg 425

<210> 1148
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119g12b1

<400> 1148

tgggcttcga caagtccacc tcctttctcc tctttgcatc cggccctgag ggcaaggtgc 60
 cgctcttctg gggaatcacc gccgacggct gcgtcgctt ctccgacgac atcgacctgc 120
 tgaaaggatc ttgcggcaag tcaactggcg ctttcccgca aggttgcttc tactggaacg 180
 ctcttgagg cctcaagtcg tacgagaatc ccaagaacaa ggtcaccgct gtgcctgcag 240
 atgaggagga aatctgtggt gcaactttca tgggtggaagg gtctaccgtt gtcgcgccac 300
 ttcagtagga gattctctcg tctccgtcgc tgggcaaagc aagcaaggcc gntctctgt 360
 atatggtggt ggtgtaatat aatgccacaa ggcgcgtgtg ctactctctt tgtgaactta 420
 tgtgaactgt 430

<210> 1149
 <211> 528
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119h01b1

<400> 1149

gggatatatc catggcgctc ttggctgcaa ggatcgctgt cgctcgtgagc ggccttgatc 60
 tgatgatgat gatgatggca tgtctcctgg cgccagcggg cgctgacgag tgcattgact 120
 tgtgccttca tgattgcgcc gtcaagggga agaacttgac ccaggagcaa tgccagtacg 180
 catgcaatta cggtgcccc tttggcgccg ccagcacgc tctatcgaat gccccgcca 240
 ttgccaggaa tggcggggaag accgtccatg tctcatcca tgtcctcgca gcaacgatgt 300
 ggctctagct agcagctgct ccttcacgc ccgctccagc atcggcacca atctggagct 360

cctccatcgg cgtcaaaggc catcaaagca gcaagcaagc gtcaagatgt tatagcggat 420
aatacacgta tgctatgttg catgtatgta tgtgcttatg tatctttatt tatcaagcgt 480
gaagatgctg ttatatcgga tatataatat acttatgcta tnttttgc 528

<210> 1150
<211> 543
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189119h02b1
<400> 1150

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gatgctgaat gaggatgagc tgcgtgatgc tgtgttgctt gtatttgcaa acaaacaaga 120
tcttcctaat gccatgaatg ctgctgaaat caccgacaag cttggtctgc actccctgcg 180
ccagcggtag tggtagattc agagcacttg tgcgacgtct ggcgaagggg tgtacgaggg 240
acttgactgg ctcttcaaca acattgccaa caaggcttga agcgccttga caagtgcttc 300
atcaagaaac aaacgtgctg gatgtctcaa caactcactg ctaccatttt acatattgtg 360
atatatatac actgtacaag agatagtagt tgtgctgatg tgacaggcca taatctccct 420
tctttaagtg agctagtatt taggtagggt ggctcttttt gtatggaatt tatcagttgc 480
cgttccgttg ttttaccagg attaatgagt tcacatgtgc gttcgacccc tatcttttta 540
gtt 543

<210> 1151
<211> 314
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189119h03b1
<400> 1151

tctcttttgg ttggctaata tcgcaggggg tactctgtcg tcctcggctg catgtggttt 60
gtcttgagct tcgtactact gtctactagt gcttgtaact ttcttttctt atccccgtct 120
gctcactgca tgctagcgag tgatgggtgt gtatgtgtgt actttgtgta cgctccatgt 180
gtaaattctc gcgtgtgtgg tgtggtgttc accatgttta accactctac tatggtgaaga 240

cactcttcac ctcagagtct gcttttcctt ttataacata agattttctgg gtggtctttc 300
tattggattc cagc 314

<210> 1152
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119h04b1

<400> 1152

ttgggaggac gcgggggggtc tgtatgggag ctttcgagac tgtctccgat gacgtcgccg 60
ccatcgagcg cgcgaacgag gccgcacgag ggcagggagt gtggtgggag ctgctgatca 120
acccgagccg gcccgtagcg cgcattgctc tgcgggcct tgggctcatg ttcattcagc 180
aggccacggg cgtggactgc gtggtgatgt acagcccgag ggtgttcgag aaggccggga 240
tgaagaacag gaccaactcg ctggggggcga tcatggcggg ggccgctgc aagaccttct 300
ttatcccgat cgcgacgctt ctcttgacc gggtcggtag gaggccgctg ctgctagcca 360
gcggggggcg gatggacatc tttctgttca cgcttcgcac gtccctgctt atgctcgacc 420
ggcggccg 428

<210> 1153
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119h07b1

<400> 1153

cattcgatgg cccaatgggg cttggggact tttttaggcg acttggcatg aaccggacct 60
gctacagaat gtgaagaggg tgagtccatg gctggttgag ctggtctcaa acatgccggc 120
cattcacctc gctccgttct cgccgcctcg gaagaagctc tgtgttccgt tctacccga 180
cctcccggtc gacggccagt ttccggcccc gatgttccac ggaaaccac tcggacgcgg 240
cggcgctcgg ccatgtgtct attttccgga cggcactcct gcaggcatac agggagccag 300
gcatgtctaa tttggtatat ctctatcaga tctccacctt aacaaactgc agtcgagtct 360
gtcaccgcac gggcttcacc aggtcgatca cggcggggcag ccga 404

<210> 1154
 <211> 279
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189119h08b1

 <400> 1154

 ggactgcatc ctctccgggg gcacttttac atatcacact gctcgtcctt gcctccgaac 60
 aattacatct acagaccacc ggatatgtgc gcgcgccgcc ggttaccgag cgccggccat 120
 gttggtgcat ggcgggtaca cggagcactt cgtgggcagg ggggccagtc ttgcccgcag 180
 cgttttaagc gccacccgcc gccttctcgc tcaccgactt cgctacggag tcagagcctt 240
 ctctctcttc cttctcatcg ggcaggaaga cgcgccccg 279

<210> 1155
 <211> 420
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189119h09b1

 <400> 1155

 caacctcacc gacttcgggg tcgcctacgc cgttcgccgc gtcgtcaggg cagccgcgga 60
 gggcatcgcg cggtgcccgg gctgcaagac cagcctcatc accttctgc ggacctactc 120
 gcccgaccac ttcgagcagg gctcgtggtt cgacggcggc tactgcaaca ggacggcgcc 180
 gctgcaggag cgggaggtga gcatggagag catcgcgtgg gagctgagga ggggtgcagag 240
 ggaggagatg aggcgggtga gggcgaccaa gaggagggtc ggggtgctgg acgtgaccaa 300
 ggccatgatg atgcgcgccg accgccacc cgacaatcac ttcgacagca ggtggaggag 360
 gaacggcagc gactgtttgc actggtgcct gccggggccc gtcgacatgt ggaacggcgt 420

<210> 1156
 <211> 425
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189119h11b1

 <400> 1156

ctccctgatg gtcttatgag ggccctctgat gttatgatcg ctggcacggg tgctgaggtc 60
 tgcgggttatg gtgatgttgg caagggctgt gccgctgcac tcaagcaggc tgggtgcccg 120
 gtgatcgtga cagagattga ccccatctgc gcccttcagg ccctgatgga gggcatccag 180
 atcctcactt tggaggacgt tgtctctgat gctgacatct ttgtgaccac cactggaaac 240
 aaggacatca tcatggttga ccacatgagg aagatgaaga acaacgccat tgtctgcaac 300
 attggtcact ttgacaacga gatcgacatg aacgggctcg agacctacc tgggtgtcaag 360
 cgcattacca tcaagcctca aactgaccgc tgggtcttcc ctgagaccaa cacttgcac 420
 attgt 425

<210> 1157
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a01b1
 <400> 1157

ttaagtttaa gagcagtgtt tgcctttttt gtgcttgtgt gtgatcgaac atactagact 60
 gctattgagt ttctactact tgccacctgg tagtattaaa aatgggttctg catataggag 120
 tatagtcgta ctgcctatgg acttgagtct aacagggatg catatcgtcc gacaaagtaa 180
 ggcaatgcga ttatgcactc ggtaaggatt cgagaaaccg gcagccattt ttcagttatg 240
 aaaagacggc gcacagagtc ctcttccggg tgagaaaaaa aaaaaataag accagaatcc 300
 atagacatta tactgagcca agctgttatc ttactgtttg aatgaaatga actacttttc 360
 cttttttcca taaaaaaaaa aaaaaaatat ggcttctttt ttggggggcc cttt 414

<210> 1158
 <211> 95
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a02b1
 <400> 1158

ttatcgccct ggctatcgca gtcccgattt ctgtatatca tcgcccgtgc catcgtctcg 60
 tgaatggtag cagaatttgc acacgtttgt tctat 95

<210> 1159
 <211> 482
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189120a03b1

 <400> 1159

 cggccccag ctcaaggccc tgagggagtc caggaagttc gcgctcggcg gggccctggc 60
 cggcgccgcg cacctcggag gcgttggctt caagtactcc aagagcccg acggtgtcgt 120
 gctggcgacc gggttcggag cgctcacagg cgccgggctc gggtcggagg tgggcgagca 180
 ctggtacgag ctctacaaga tggacaagca gggggccaac ctacaggttca tctactggtg 240
 ggaggacaag gtgtcacgcc agaagaactg aagaagactt ctgcataagc ttatgcctgt 300
 ttcagcatatc tggtttgaca agacaatgat gtctccagtt tgggatttct agtttttact 360
 tcctaggctc tttccaataa ggagcatatt ggccatcaac tggacaatgg attttattct 420
 ctctactatg ggctgctctc aggttctcta tgatgttcat gtttgcacct atcgaaaact 480
 aa 482

<210> 1160
 <211> 328
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189120a04b1

 <400> 1160

 ctaggatatt ggtcagcaat tgatcttttt tggatgttga tgaagctctt tcagaagctc 60
 agaaatactg ctgcgtagtt tccttgtatc aatgggaaac tggggcttct gtttttgttt 120
 ttggtttccc aacgttggat gaataatgtg tacctaaagt taatcaaaca aaatatgttc 180
 cccttgcaaa ttatttacct tttccctcct tgattgtttg tgaacaatgt gtgatgtttg 240
 ctgtatctat tatggatttt tatatggata tacttaaaca aaaatgaaaa actttcaata 300
 actgactttc aaggttgtca acagatat 328

<210> 1161
 <211> 443

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189120a05b1
 <400> 1161
 cacctcttct tcttcttcca tagtaaccca acccaccctt tgccaagatg tataacgctc 60
 cgtcggggca ggagatgtcc tacacggagc acgtgcagaa gcgccacgag gagaagggct 120
 gcatctacgc atgctgtgtc acagcgtgtg gctgcttctg ctgctacgag acatgcgagt 180
 gctgcctcga ctgcctctgc tgctgctgca actaaaccgg acatggccgc catggacgga 240
 ggccgcaagg cgcagaggag atccaccggc ctccgccgcc ttccataata agcatatgtg 300
 tctagtgtct tagctcgatg agaactgtat cacaactttg ctataatact atctgtcctt 360
 gtaatcatcc atcatggttt gtgttggtgc tgctgctcta ccattttaat ttaattagca 420
 tcagattatg gttctcacca aat 443

<210> 1162
 <211> 219
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189120a06b1
 <400> 1162
 aactcccaaa ccgcaatggc aaaacgccta gccgaaaaag catcctgctg ctggtcctgc 60
 tcgatgcggc gaccctttta gagctccatg ggaagcacgg tgctggtagc gccgtaagag 120
 atatgaaggg tgcgacgcaa gaccactggt tggcggcacc ttttgaaagc ggggggtactg 180
 gcaaaacctg gcgggacccc aacatagtgt attggggggg 219

<210> 1163
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189120a09b1
 <400> 1163
 gcttcgagcc agggcgggtg gcggcagttt gcggggacga tggtcgggat cttctccagg 60
 ttctcttccg gcgccggcca ccgccgcgcc aagaagtgcc gtggagggtg tggagacatt 120

ggcgcccaac atggagaccg gggagtctga cccggcagct gatcctggag atagcccgca 180
 cggcattgag gtcggcatcg agttcaagcc ggtggagcac cctgtggagc ctgtcaacct 240
 tgaccaacca gtgaaatgcc cgcttgctga gccatctata ctgcatgatg ggaggatatg 300
 gcaagagagg atgtctacag cgggcgggag gccgaggacg gacctgccgg tcgtgaagga 360
 aggattgcag ctcgagcccg acagcagcac cacaaggctg aggtctgcgg taccgaggcg 420
 cgccatactg ccctccgtga 440

<210> 1164
 <211> 143
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a10b1

<400> 1164
 aaaaacgggg aagacaaaaa gaaaaaaaaa cgcgtgccca catggctggg gcggcctaca 60
 tgggtggcacc cccggggctt tcccgggcgg cgcaccaccg agggccttga tggggcaacc 120
 ttgaacgagc cgtacttaat ctg 143

<210> 1165
 <211> 77
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a11b1

<400> 1165
 aggggccgtc ttcgaggcgg gttgtggggg gaatgcagcc caaatcgggc ggtagactcc 60
 gtccaaggct aaataca 77

<210> 1166
 <211> 157
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a12b1

<400> 1166
 aatggaaacg cgggcgtcta gagagaagtg tccattgggtg gcatggaacc tgtgttgcaa 60

agagataata acaaactagc tttgcttagt gggaggggct gtcttccatg ttatctgcct 120
 atatgatttg acaaaaactac tcgcaagttt atctgcc 157

<210> 1167
 <211> 77
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b01b1

<400> 1167

gacaccccct ggggcggttc atgaagcgcg tagggggact ttgttacgcg ctggatgtcc 60
 gttccacttg ccagggc 77

<210> 1168
 <211> 211
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b02b1

<400> 1168

atgcgcggac gtgatgccac gtaatgggtc tcctatagtg aaacctaaat caattaatgg 60
 acggctttac aacgaagcga ctgcgaaaac catggtgtta cccaagtaaa acatcttgct 120
 gcacatacct gtttggtcag ctggcggaat agctaagagg gccgtaccga tcggccttcc 180
 aaacagattg gcaaactgaa cggggaatgg t 211

<210> 1169
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b03b1

<400> 1169

gctagctacc ttgaggaaat ggccgttgcg acggcaatgg tcatcatgct ggcggcgctg 60
 gcgatcctcg cgccgtccgc gcgggggctc gaccggaccg agttcccgcg cgggttcctc 120
 ttcggcgccg ccacgtcttc ttaccagatc gagggcgcggt acctggagga cggcaagggc 180
 ctcaacaact gggatgtctt caccacacc cagtctaggg aaatcaacga tggacggaac 240

ggagacgtgg cggatgacca ctaccaccgt tacatggaag acgtggcgat catgcatgat 300
ctgggtgtaa actcctacag attctcgatc tcatgggcga gactcctacc aagaggccgg 360
ctaggaggcg ttaacacggg tgcaatagct ttctacgacc gcctgatcgc cgcgctcctt 420
gagaaaagga tagagccgtt cg 442

<210> 1170
<211> 496
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b04b1

<400> 1170

cccacaacat ctgcgacacc tttctctacg agctgcaatt agatcatagc tgaggaggcg 60
gcaatgacca ctgaggttct ctttgtggtt tctgattttg cggaagctga atgacaatag 120
taatgactgg tggatccatg tttgcgtttg ctgacgacaa cgataatgag tttttacggc 180
tgcacttgag ggtgatcgta tccatgctac cattctgcag tatcttgaga tttctacagt 240
ggagtagtac acaactacct atcacaagtt tgagcttaga tgaacaacat gggcaccatc 300
aaacggatag atcatgcgcc tgatgggtct catgatggag tagttgataa tggttatata 360
caaaacatat ttgacagag gtggcaccag acgtcacaga gaggtaccgc gttcgggtcca 420
acgaggagct ccgggcatgg tgggcggtgg ccatggcatt ggcctcatgg gtttactctg 480
actgtcgccg ccattc 496

<210> 1171
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b05b1

<400> 1171

gtgcagacct acggcatcag cagcgatttc catgaagcgc tggatgtccg acaccggat 60
gacgtcgtgg taggaggagc ggcgatctg gatggtgtgg tggccgcggt gcgctgcgc 120
gaggcacagc gagcagagcg ccgacgcgcc 150

<210> 1172
 <211> 320
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189120b06b1

 <400> 1172

 aaaaaaatgg gaagggataa attataaaaa aaaaaacagc aatgacaaaa cgacataaac 60
 aaagagctac tgatgatggt cctgctcgcg ttcaaagacg cctaagagct gaatgggaag 120
 cacggcgctg gtagtgccgt cagcgagatg aaggctccgt tgcccgaccc cggggttgccg 180
 gcaccgggtg ccgcgggggt actgccaccg gttgtcggga cagcatcatc ggttatcggg 240
 gggacctgat ccgtttcaaa aggttacact gcctcaagtt cagcactgtt aaattattgt 300
 cccctctgca cagcaaatgg 320

<210> 1173
 <211> 484
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189120b07b1

 <400> 1173

 gtgggcttac aacagcggca ccttcgtttt tctgctcgcg ggccctggtga ccacctggtc 60
 catcgcaaag acattgacct agagctcttt ctgaggcaac aacaatggtg gctttcatga 120
 acccggaag catatacaac tagaggaatt ttattttttt gctcgagtga cggtaatgcg 180
 caaccagtg agacctgttg cagatttggt cattggccgt ctcttattag gtgggtgatt 240
 agcagtagtc gttagtgtca tactactcta gcttgtagca tagtatatgc tatttttcac 300
 cgtgtggtca actcctatct ggtttgctgg tgtacgctgt gtagctatgg gtattgtatt 360
 tggagggcag atctcatttg ttcattctca aggggtgttt ggtagctgcc atgattggtc 420
 tgtgtaatgg ctttggttg ccaatggaaa atgcatacat tcacttgtat acgcaagttc 480
 tggt 484

<210> 1174
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120b08b1
 <400> 1174
 tgggacctca cgcgcgcgt cttctctcgt ttgccagaac gtgagcctcg acctgggcag 60
 gttcggcgac accctccgga ggctgcactt ccgggggagg cgacagttcg tacgtgacag 120
 ggcgctggat cgatcgcaac catcttctgt gactcttgtt cgacagcaca gaccacacaa 180
 tgtgttttgt ttatttgttt tgttttgttt gtgcacaaaa gaccatataa aatccgctga 240
 atactctgat gacgnaaaaa aaaaaaata taaaattaat ataaaaagaa taaatttaaa 300
 gaatataaaa aggagaaatt atctaacatt tgcaatattt tttataata aaaaattggg 360
 gggcggccgt tttaaagg 378

<210> 1175
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120b09b1
 <400> 1175
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 gaaaccggag gcgggctcgt cggtcaccgc cgttacaagc gcgagcggct gcatgtaaatt 120
 ctgtacatca ttacatgagc tctgactgcc tctgctgttg ttgctgcccc tgattctgga 180
 gctagtaaat atggctagtt tgcccgtgga atggtaggtt tcgatgcgct gcctcgacaa 240
 aaaataggtt cggtcggggc cacctggaac atgaggagga tttgtggtga acgcgagctg 300
 tttgcaatgg tgtggaatgt caacaccgga ggctgtgtat aagtgttaacc catacctcac 360
 atgacctcac atgagaacga aaaataatgg agcatgttct gcaagcctgg 410

<210> 1176
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120b10b1

<400> 1176

ctatcgcaga ggttcatgtt cgaggagggt tgatactacc actgctgttg ctcgatcccc 60

ttgcccaggagg tggctcagac ggagtgaagt ccgtgtgttt caacataatg cagtattcag 120

tcttgacgca gtatcttatg ccctcgggat cagtacgtgg tcttgtttgc cctcatggaa 180

tttgtagttt tggccggatg tctttgctcg tgttgctgtg gacattgtgc acggtaatga 240

gtggtagcat ccctagccac gggttgtatt ggcttagtgc ccctgttgat ttctgaatct 300

gaactgttgg ttgccacttt gcttcatctt ctctctatcc gnttt 345

<210> 1177

<211> 274

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120b11b1

<400> 1177

cttgttctgc agtgcacctc aagcgatggt tcgaaagaca gtacctgtag attcatgtat 60

caacattgtc cctgtataac caaagtaaag agctgtcaag atgatgatat gtatttcaca 120

aaanacaaaa aatgagacca aaaaagaaaa aaaaaaagct aaaaacataa ataaaactgg 180

gggggtccgt ttcgaggatc ccagtttccg tcctcgagcg tgccacgtca tatcttttct 240

tttgtgtggc ctacttagat tttacttgcc gggg 274

<210> 1178

<211> 485

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120b12b1

<400> 1178

aactaccatt gggccaacat tcccaacaac cattctttca gcctcaggaa cccaacaac 60

catttccccca gtcacaacaa ccacaacaac cttttccccca gcccacaaca caatttccgc 120

agccccaca accacaacaa tcattcccccc aacaacaaca accggcgatt cagtcatttc 180

tacaacaaca gatgaacccc tgcaagaatt tcctcttgca gcaatgcaac catgtgtcat 240

tgggtgtcatc tctcgtgtca ataattttgc cacgaagtga ttgccaggtg atgcagcaac 300
 aatgttgcca acaactagca caaatcctc aacagctcca gtgcgagcc atccacagcg 360
 tcgcgattc catcatcatg caacaagaac aacaacaagg cgtgccgatc ctgcggnac 420
 tatttcagct cgcccagggt ctgggtatca tccaacctca acaaccagct caattggagg 480
 ggatc 485

<210> 1179
 <211> 276
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120c02b1

<400> 1179

gcaagatggc cggaaggaag ggccggcgaca ggaagaaggc ggtgaccgc tccgtgaagg 60
 cccggcctcc agttccccgt cgcccgcatc gggcgtttcc ttaagaaggg ccgctacgcc 120
 cagcgtgttc ggctccggcg cccccgtct acctcgccgg cgtccttgag gtacctcgct 180
 gccgaggtcc tggagctcgc cggaacgcg gccaaaggaca acaagaagac ccgcatcatc 240
 ccgcgccacc tgctgtttgc cgtccgcaac gaccag 276

<210> 1180
 <211> 461
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120c04b1

<400> 1180

ctcatccctg gcacaagctt tttggtaatg tcgtatgcc aatgaagcag ttgatcttgt 60
 gtcaaggcta cttcagtact caccaaactc gcgcttcaca gctgtcgatg cttgtgcccc 120
 tccgttcttc gatgaactgc gggatcccaa gacctgcttg ccaaatggac ggccattacc 180
 accattatc aacttctcgg gagctgagct agaaggcctc cctgttgagc tactccaccg 240
 gatcattcct gaacatatga ggaagtgaag agagatggcg gctggagaag cggtcgctat 300
 ttctcggcgc cactgtgcgg gtggagaccg gacaccgcga gcatatccat ggctcgctgt 360
 ggatttgatc tggagtagac tccccggctg gcctggactg gcctggagct agagaagggc 420

aaccgcgggc atgtgccag gccccagacc caccacact g

461

<210> 1181

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120c06b1

<400> 1181

ctgcggctac tccatgaacg cttcaactt atctgccttc tccaccatcc atgtgacccc 60
cgaggacggc ttcagttacg cgagctacga aggcattggg catggacgct tcggccctgg 120
cctatggcga catcgtcaag agggctctcc ggtgctttgg cccttcagag ttctcagtgg 180
cggtcaccat cttcggtggc cgcgcccatg ccgccacctg gggcaagaag ctcgacgccc 240
aggcatacga ctgcaacaac gttgtggagc aggagctccc ctgtggaggc gtcctcatct 300
accagagctt tgccgcgaac gaagaggttg ctgtctctgc cgggtcgccc aggtccgtct 360
ttcactgctt cgaggccgag actgtggaga gccacccgct ggtcaaggaa ggcaagctcg 420
ccaacctcct cgcattggcga gcggaggat 449

<210> 1182

<211> 361

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120c09b1

<400> 1182

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gcccaactac tgccgcaagt gtggcaacga cgggagccgt catgaccgtc gccggtgacc 120
tcgectgctc cttccgcgtc ctccaccctg atgatactgc cgctcctcct ccggtccta 180
tttatctgta gtccaacata tatatatatt catttttagtt tcagacgcct tgccatggag 240
tagtaatctc cagctcgtcg tgtcttcggt ttattaagag tgaatttcag tttttgaatg 300
tattgcagggt ttttgtccca tttagctaaa gttttactac cagatttatt ttaccacatt 360
t 361

<210> 1183

<211> 514
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120c11b1
 <400> 1183
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 gtgggtttttc ctattttaca tgattcacat aatcttctgc gtgtggtcag ctgtgtctcc 120
 cccattccct ttcaaaggaa attctttgac tgggattttg cctgccattg atgtcataac 180
 caagagcctt attgttgga tattttactt tgttggaatt ggattgttct gccttgaatc 240
 actgctgagc ataggtgtca ttcagcaagt gtacatgtac ttccgtggaa gtggaaaatc 300
 ccaggagtgt aaacaacagg cagcacgtgg tgccctgagc tctgcgttct gatgaagaaa 360
 accagcagcc agagttgtag ccagggtagt gagtggaagg agacaggatg tgtgccgatt 420
 ggaaatggta gtcttgcgca tcgctgcacc atgcggattt ggatcgctga aatcatacag 480
 ctatatcttt ttgctcttct gttaatacaa atat 514

<210> 1184
 <211> 144
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120c12b1
 <400> 1184
 tcgccataag caatagaacc ttttttgttt taccattttc tgacgaggaa ttgtactacc 60
 atgtgatgca taatttgatc gtcctgtgat caaaagacat catatataag ttttaataata 120
 ttttcatgaa cagtttacct tttt 144

<210> 1185
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120d01b1
 <400> 1185
 gcaccccttc agtccttagc tttcttccct cgccgccacc caccaaggaa aggaggatgt 60

cttgtctgagg cggcaactgc ggggtgcggcg cctgtctgcaa gtgcgggcaac ggctgcggcg 120
 ggtgcaagat gttccccgac gtggaggcca ccgcccggcg cgccgccatg gtcattgcca 180
 ccgcctccca caaggggagc tccggcgggt tcgagacggc cggggagacc ggcggctgag 240
 actgcaccac ctgcaagtgc ggcaccgctt gcggctgctc ctgctgcagc tgcaactgag 300
 ccggcgccca ggaggccggc cggcagaggc gagcacgagg atgaggagga caagcaagca 360
 agcaccatca ccaccagttt accaccaccc agc 393

<210> 1186
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120d02b1

<400> 1186

acgtgaggtg ataagaatat cctgatgata ttaggtcgca ctgcaccac caccgatcag 60
 aagccaccac gccaacgctg tgccgccgcc gaacttttgg agaggagacg cggaggacgg 120
 caagatggga ttcgagaagg agatcctgaa agccggcacc ggccccaagc ccgtcaaggg 180
 ccagaaggtc accgtccact gcaccggcta cgggaaggac ggtgatctgt ctaagaagtt 240
 ttggagtacc aaggaccctg ggcagcagcc attctctttc aacattggtc tcggttcagt 300
 aatcaaagga tgggatgagg gagtcatggg catgcaattg ggtgaagtgc cccgtcttac 360
 gtgcaccca gactacgctt atggat 386

<210> 1187
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120d03b1

<400> 1187

caagatcaaa agcattatct ttgtttttcg cattggtgtc tccaaaacta cgaacaaccc 60
 aagtttcctt tgaatcagca cttgaacaaa ttgtggagct agcgaattca agatcaacca 120
 tgctctctag cttctcacag ataaagcgca gatcatgaat cgattgcctg atttgagggt 180
 ctgtaccctt gcacaccatc tattctcttt gtggagtatc agttatatgc aatcgacagc 240

gctcgtagaa aatatcataa tcctatttga aatgttgatg cacgtggaga tgtatgagag 300
 ttgtgttttg cgtttcatta tcttgctgtt gaggcaagca ctatgtctgc atattgacgg 360
 tttccttttg ggaaatcaac ggggaaactt gttcttctga aaaa 404

<210> 1188
 <211> 494
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120d04b1
 <400> 1188

gaaggacaag gaacacgcca aagaggccta accggcggaag gaaaagaagg acaagaagga 60
 gaagaaagaa aagagcaagg agaagaaaga agaaggtcgg agaggtaact gacacggcca 120
 agctgagggc aaagctagag aagatcgatg tgaaaatcga tgacctgaag gcgaagaagc 180
 aggagattgt ggctcgactc ctcgagctcg agggtaaggc agcagaggct gcagcaccag 240
 cgagcggctg aggtttcgac aggttgttgc cttgagaaga atgaaacagc tttcaggcaa 300
 tgcattgcagc tagtgacatc ttattattgt tctttcgatt ggcatattat tgtgctttaa 360
 tcttcctgga gctacatatt tgcattccagc attgcatgat catctagatt tgggtgcacac 420
 aagtgtccac cttgtatcga atccccgggt aactgtggca tgaatgtacc tcttaaagat 480
 ccacntttaa ttaa 494

<210> 1189
 <211> 565
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120d05b1
 <400> 1189

acacacggac acacgtgcaa gttcgagttc gtgagccatg gcgggcatgg ggaagcagca 60
 ggtggtggcg gcgctgatgc tggcgctggt ggggctggcg gcggcgccgg gcggggcgca 120
 cgcggcgtgc caggcatcgc agctggcggg gtgcgcgtcg gcgacctga gcggggccaa 180
 gccgagcggc gagtgtgcg gcaacctgag ggcgacagc ggggtgcttct gccagtacgc 240

caaggacccc acctacgggc agtacatcct gagtccccac ggcgcgcgaca ccttccagtc 300
 ctgcggcctc gccgtcccc actgctaggc gccggcagge ccttggcgca tatggcaagc 360
 tagctgcctc agtgaccatg agagcgtcag actatagcta gccctagctg agtgcggtgtt 420
 gcgttcatga acgcatcttc ctgtcaacca tgtgggttcga ctttgatgat gctggaataa 480
 aaatataaaa tgttgggtga tgatctaccg cggncatggt gcttctggct gctgctgctg 540
 gtaataaaat ataggtgcaa ctttg 565

<210> 1190
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120d06b1
 <400> 1190

aggccctcgg ccgggcgaac gttatctttc tggacgctca agaacgtgac cccggcgctg 60
 caccgggaga tgatcctggc ggcgaccaac aacggcgaca tcgtggacgc ctaagcaaag 120
 caatgaacca cggacaccaa ggcgtacgta cgctgggtgtt tcggggcgaa aaatcaataa 180
 gatgggttcgg tgaaacagag gatgcttagg gacgaggtct tgtctttgtg atttgtcaga 240
 ctcggtgttta attccgatgt ttatctttag ttttcttggt ttagcgtatt ttgttcatgc 300
 cacctgcccg ccatgtgctc tgctctgctc tgctcaccg cagcttcatg gatgatgaat 360
 ccttatggaa caagaggagg gaataaaaag gttgagttct ttataaaaa 409

<210> 1191
 <211> 548
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120d07b1
 <400> 1191

cccccaaccc acaaccacct gcggttgccg agcgcagctc gaggaaggag gcgaagatgg 60
 tgaagttcct gaagcccggc aaggcgggtga tcctgctgca gggcaggtac gccgggaaga 120
 aggcggcgat cgtgcgcgtg ttcgaggagg gcacccgcga ccgcccctac gggcactgcc 180
 tcgtcgccgg cctggccaag taccgaaga aggtgatccg caaggactcg gccaagaaga 240

cggccaagaa gtcgcgcgtc aaggtgttcc tcaagctcgt caacttcacc cacctcatgc 300
 ccacccgcta caccctcgac gtcgacctca aggaggtggc ctccggggcg cccgactccc 360
 tcacctccaa ggacaagaag gtgggcgccg ccaaggccgc caaggccaag ctcgaggaga 420
 ggttcaagac cggcaagaac aggtggttct ttaccaagct ccgcttttag gcctgcaggc 480
 cgaccgcgca gggcggttct ctgtcgact accttgaccc gttacatttt agctgcttgc 540
 tcttgat 548

<210> 1192
 <211> 542
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189120d09b1
 <400> 1192

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 gtggggttgt tgcattcaac tctaaggatg accctgcaa ggaggcagcc aacttcacct 120
 ctcaggatcat catcatgaac caccctggtc agatcgcaa cggctacgcc ccagtgtctg 180
 actgccacac ctccacatt gctgtcaagt ttgctgagct ggtgaccaag attgacaggc 240
 gatctggtaa ggagattgag gctgcgcca agttcctgaa gaacggtgac gctggtattg 300
 tgaagatgat tcccaccaag cccatgggtg tggagacctt cgccacctac ccacctcttg 360
 gccgcttcgc tgtgcgtgac atgagacaaa cggttgctgt tgggtgtcatc aaggcgcttg 420
 agaagaagga cccaccggc gccaaaggta ccaaggctgc catcaagaag aatgagtg 480
 tctggtgtct gccatcgagt tatctagcag aagttttagt gtcaagtctt ttttgagaa 540
 tc 542

<210> 1193
 <211> 365
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120d12b1
 <400> 1193

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ggtgtcgtac gggtcgccgc cgccaccgac ggggccgtag aaatagctgc tagctaggta 120
 gcaccactag ctagccgcgc cgcaggctga tctatcgcc cgccgccac ctccacggcc 180
 ggatcgctcg tcgtcagcca gccagccagt cgtccgtcc gtctgtccgt ccgtccgtgg 240
 ctgctccgtc accagtacat ctctgctgt agtttcttgc tctcctctc tcttgaacg 300
 ttattttttg ttctctgttg tccatttgtt atgtcgctat ttgatccgaa ttaaattott 360
 nccac 365

<210> 1194
 <211> 373
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189120e01b1
 <400> 1194

ggcaagcacg tggctctcgg ggaggtcttc gagggcatgg acgtcgtcaa gaacatcgag 60
 aagggtgggct cccgcagcgg cacctgctcc aagcaagtcg tcatcgccga ctgcccag 120
 ctctagatcc gtccgcccgc cggtcgcctg tcgtcgtcgc cccgtgtccc gtgtcgtcga 180
 tctaaataag agagtcgtgt gtcgtgtcgt gtcttcccct tgtccgtccg atgagatctc 240
 cgtgggttgg ttaggagggg tttaggtgga ctcttttggc cgctggatct gtgtccggcg 300
 gccatggta tcttctgtg tctgctgcta tcttactgtt tgaatgagat gaactccgct 360
 atgaattatc cat 373

<210> 1195
 <211> 507
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189120e02b1
 <400> 1195

tggatgagac gtgctggagc gactatgttt tctgcaaggc gactggcaac atgtactgct 60
 gctcgaagat aatggcggag atcacggcga aggaggaggc ggccaacagg gggctggacc 120
 tggcagtggt ggtgccgtcg atgacgatcg gccccgcgct gcagcagaag ctcaatctgg 180
 gcatcgctt tatcaaccgc tacctcacgg gcgccaagaa gacctgcccc aacgccgtgg 240

ccggctacac cgacgtccgc gacgtcgccc gcgcccacgt cgtcgtctac gagcgcccgg 300
acgcacgcgg caggtacctc tgcattggcg ccgtgctgca ccgtgcccac ttctccagc 360
tgctccgaga ccttttcccg cagtaccca tcaccgacaa gcgtgaagat gacggcaagc 420
cgatggccaa gccgtacagg ttctccacca gaggtgagg gacctcgggt tggagttcac 480
tcccctcaag agagtttgta cgacatg 507

<210> 1196
<211> 397
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120e03b1
<400> 1196

tagcttcagc tagccaccct cttccacttc gggcattttc ttgcatccac gacggcaatg 60
gccaccgctg atgtccagaa cccgacggcc gcgctgacgg aggaggcgcc cgcggtggag 120
acgcccgtcg ccgccgagga ggccacgaag acggaggagg tccccgcgcc ggcgaggaggc 180
gaggtcgagg cgcttgctcc cgtcgaggtt gaggagacca aggaggaggc gccggcagcc 240
gctgagacgg aggagaccaa ggagcccag ccagcagctg ccgccgagcc ggaggccgag 300
gcgcccacaa agccagaggc gccagccgtc gtcgaggcag agaccaagga ggccgtggct 360
gaggcagagc cggcagtcgt ccaggaggtg aaagaag 397

<210> 1197
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120e05b1
<400> 1197

gccagcgaga aagaggagag ggttggccgt ttgaagcact tcgccgataa aatcgaacag 60
gttgatgttg agaatttcgt agaagacgtc gatggcggcg atgaagatgg caaagatgtt 120
aaactgaatg caagtgttg tgtgaagaga ggcaggccac tgaaggagag cccaacatc 180
gtcctggaag agaacagcaa ttccagcgtt cgatcaagca gcgatgaatc ggccaggacc 240
aatggattca ggcagattgg gaaccggagg aagagcacgc cacggcgagc agcggaaagc 300

ggcctagaat gcaagtgatc gctgagcaat gccatgccaa tccatacaat ttttggcacc 360
aggtagcctt cataattttg tttaaagtga aacatgacat gcaactgagt ctgaaattc 419

<210> 1198
<211> 248
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl1189120e06b1

<400> 1198

acacaacatc tcctgggtag ggattttata agaactccca gttagcaatg gcgaagcgcc 60
tcgccgtcgc gctcctgctg ctggctctgc tcgctgccag cgacgcggga gagctgaatg 120
ggaagcacgg tgctggtagt gccgtcggcg agatgaaggc tccgttgccc gaccccggtt 180
tgccggcacc gggtgtcgcg ggggtactgc caccggttgt cgggacagca tcatcggtta 240
tcggggggg 248

<210> 1199
<211> 407
<212> DNA
<213> *Triticum aestivum*

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189120e07b1

<400> 1199

cccctcgcgc ccagccgac gccgccgttt tcgtcgccgc cgccgactgc agcaatgtcg 60
ctgatcgcgg gcgaggagtt ccagcacatc ctgctgtgtc tcaacaccaa cgtcgacggt 120
aagcagaaga tcatgttcgc gctcacctcc atcaaggggtg tgggcccgcg cttctccaac 180
atcgtctgca agaaggccga catcgacatg aacaagaggg ccggagagct ttccgcggag 240
gagatggacc gcctgatggc ggtggtgcac aaccgcgcc agttcaaggt gccggactgg 300
ttcctcaaca gaaagaagga ctacaaggac gggaggttct ccaggtcgt gtccaacgcc 360
gtggacatga agctcangga tgaccttgag aggtcaaga agatcag 407

<210> 1200
<211> 392
<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120e08b1

<400> 1200

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tttggtgaaa ggctacatcc cgctgcatg ccccatgnaa cctttttgtg aagcaatata 120

gcaaattgca gttcgcgtcgt gaagctgagg aaggattcca agagaagaga atgaggctgg 180

gcgggatagt tctccgatac aattaccctt tggaggagca tgcaagtaaa gtctataccc 240

ggacaatgta cgagatgttt ggccaggctt tgtatcggtc tggtaggtat gatgttgagg 300

aagttgagcg gggcataacc taccacgtgc gacatgttga agctgaaaag cgagagaagt 360

ggtgccgtga aatgcatgtg gttagtgtgc at 392

<210> 1201

<211> 436

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120e09b1

<400> 1201

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aaaccggagg cgggctcgtc ggtcaccgcc gtaacaagcg cgagcggctg catgtaaatc 120

tgtacatcat tacatgagct ctgactgcct ctgctgttgt tgctgcccgt gattctggag 180

ctagtaaata tggctagttt gcccggtgaa tggtaggttt cgatgcgctg cctcgacaaa 240

aaataggttc ggtcgggcgc acctggaaca tgaggaggat ttgtggtgaa cgcgagctgc 300

ttgcaatggt gtggaatgtc aacaccggag gcgtngtata agtgtaacct ataccttaca 360

tgaccttaca tgagacgaaa aataatggac catgttctga aagcctggaa aaaaaaata 420

aaaggggcgg ccgttt 436

<210> 1202

<211> 333

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120e10b1

<400> 1202

ctcagccccg ggaggatccc gggcctcctg cgccgtcccg ccgcggtccg cggcggcgcc 60
gtcgcggggc tccagctgac tgtgtcggac tccgagctgt cgtcccgggg ctctcgcggtg 120
cggcgcaaccg cggagggcct tgacgtggcg gcgctgaacg aggtgttcgc gcgctggtgg 180
ttccctcggc ggcaggagga gcggctccgg cgcgcgctgg agcacaacga ggtggcggtg 240
ctggcgctctg aggcgacagg gcgccccgtg gcgttcgcgc gcgcggccgg cgacgggggtg 300
ttcaacgcgg tgggtgtgga cgtggtggtg gag 333

<210> 1203

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120e11b1

<400> 1203

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ccatatcatc atcgagtac gtcactaccg gaatgggcgg ctactgagaa gatgagagct 120
ctagtatccg aaaaatggac caccaatgtt tagtcaatgg tccgatccat atgtagcggg 180
gaaaaataaa gtgccatgca ttatcatgtg tggactagac tggcactagt tcaaacttgg 240
gaataaaagg caaactaagt tattttctgc tgaacgaatt catcgaccgg gcgttccttc 300
ccaaccaaag ccaaggcggg ggtccccga aaacgacgct ggcacctagg tgcccgacgg 360
cggtg 365

<210> 1204

<211> 132

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120e12b1

<400> 1204

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gcacaccgag ctctaggacc tcacctcca tgtatgacgc actgatgttt actaaatagg 120

ctggaatttt tt

132

<210> 1205
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f01b1

<400> 1205

atctctctct ctctctctct ctggtctctt ctttatcttt atcggtctct ccatctccct 60
gtggagggat ggatcatact gctctgcgtt tcagttggag attaaacgga tatttggggc 120
ttctctctat tgcattgcatt ctgacgttct cgtgcattggg acattcttagc tattatatcg 180
aggcatctag agctgatata ctgtccgaac ttttacaagc actgcgtgct taataacctt 240
gacgttacct aagtttatag gggctggcta catccacttt tatctggtgt cgtaatatat 300
agggggcacg taccagatcg cgttcccaac a 331

<210> 1206
<211> 473
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f03b1

<400> 1206

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tatcaacaaa tgaccgagca ggtctgcgac cagtgtccaa atgttaagta tgtacgagaa 120
ggtgactttt taactgttga tattgagaag ggtatgcaag atggacagga ggtttcattt 180
ttcgaggaag gagagcctaa gattgatgga gaacctggag acttgaagtt caggattagg 240
acagcaccac atgaccgctt cagaagagaa ggcaatgacc tgcattgcaac agttacaatc 300
tccttgctcc aagctctggt tggatttgag aagaacctca agcatcttga caaccatctt 360
gtccaaatcg gtcaccaagg tgtcactaag cccaaggagg taaggaaatt caaaggagag 420
ggcatgccat tgcaccaaag caacaagaaa ggcgatctgt atgtgacgtt cga 473

<210> 1207
<211> 408
<212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189120f04b1
 <400> 1207

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 tacaatgcag ccacacgtgg tagctttttt ttcaacagca tgggtcagtc tcagtgtcga 120
 ctcgtagcta gcccgttct agctagcctt ttattcttat catagcttgc ttaccctttc 180
 atttcatcta gtcgcggcag tcgaccaact ggtagttgac gttgaggtgg ccctgctggg 240
 acccgacccc gatggtgtcg atcttgggtga agacggtgtc ccattccagg ttcagccccg 300
 cgttggcgca ctggttcacg atcctcgctg tcacctgcgc ccccgttgcc gggttcttta 360
 cccggagggg cttgccgcac gctccctgcc cgtgggcgcc ggcggggc 408

<210> 1208
 <211> 359
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189120f05b1
 <400> 1208

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 gccagcaaca ttacagtga cagaggatcc aagatccatt gcattttaga tacaccatc 120
 cgattagatt tgagaacacc gtgtaacctt ctgcatcgct tgcagtcgat tctacttggt 180
 ttcgtgtaat ttgtcatgta gaaacaaaca ctagttcttc tgttccgtag agagagtgca 240
 ttggagggca aggagttggt tgtctgtact acctgatctg gggggaaatc tatattatca 300
 caattttttg ctgtttccaa aaaaaaaaaa aataaaaata tatttaatat aaaaaatta 359

<210> 1209
 <211> 438
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120f06b1
 <400> 1209

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ttccaggggc tcaagtccac agccggcctg cccgtcagcc cgccgctcca gcggcagcct 120
 cggcagcgtc agcaacggcg gaaggatcag gtgcatgcag gtgtggccaa ttgagggcat 180
 caagaagttc gagaccctgt cttacttgcc acccctctcc acggaagccc tcctgaagca 240
 ggtcgactac ctgatccgct ccaagtgggt gccctgcctc gagttcagca aggttggtt 300
 cgtcttccgt gagcacaaca gtccccccg gtactacgac ggtcgatact ggacaatgtg 360
 gaagctgcct atgttcgggt gcaccgacgc cacacaggtg ctcaacgagg tggaggaggt 420
 caagaaggag taccctga 438

<210> 1210
 <211> 167
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120f09b1

<400> 1210

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 ncgngtcgtt tagcgttttag ctgtgctcct tccagatcga agtcgttgtc tgtctgtgta 120
 atgtttacct ggtactgatt cagtcatttg gacatggtgt ttatggt 167

<210> 1211
 <211> 115
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f10b1

<400> 1211

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 gttcgtcgta ttattatgct ttgcaacaag ccatctgatg attattatgc tgttg 115

<210> 1212
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f11b1

<400> 1212

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tggttaatct agcttcttga tctgtattga ccttcccttc ccttccatgg gttctcgatc 180

tttttctct gctaccgccg ctgtatgtac gctgcttggg gctctgaggt gtactccatt 240

cctccccgtg tatccggtcg atccgcatgt agatgggtga tacctctggg gtatgtgaat 300

gaacagagct gtttcgttcg aaaaaaaaaa aaattaaaaa aaaaaaaaaa aaaaaaaaaat 360

aaaataaaaa aaataaaaaa tttttt 386

<210> 1213

<211> 97

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f12b1

<400> 1213

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aaaaaaaaa aaaaaaaaaa aaaaataata aaataaa 97

<210> 1214

<211> 220

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120g02b1

<400> 1214

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cttgctaaac agtaatatcc tcccctctgg ctctgggtcc ttcacttatt acagacatcc 120

gtcttcgtga gctactgaat tccaagacat ttaggagctc atattttctg taagaggatg 180

ctaaaggtca aatttacgta ataaacaata tcctttaatg 220

<210> 1215

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120g03b1

<400> 1215

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atgctagcca ctgccggcat gcagctcgtg ctgcgcttta cctctcaggt tcaccggcgg 120
cgacggcggt gcgcggcgga ggtatctagc tagctaggcg ggtgttaggc cgtgtagggc 180
aactatacat ctttggcaat gtcttcttct tctctctcca tgggaggatt gtaatggagt 240
gtgtaaactg tgcgtgcatc ccctgggctg ggctctcgtt cgtggaaact caccgtcttg 300
catttctacg accaatactg gtgctctggt gcctcgttga aaagaaatac tatactagt 360
ctcttgttgt ggaggct 377

<210> 1216

<211> 534

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120g05b1

<400> 1216

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aaggagggtcc tcttggcggc catgatgctg gcgctggtgg tggcggcgcc gggcggggcg 120
cgtgccgcgt gcgtggtggg gcagctgacg gtgtgcatgc cggcgatcac caccggtgcc 180
aagccgagcg gcgcgtgctg cgccaacctg cgcgcgagc aggcgtgctt ctgccagtac 240
gccaaggacc cctccctcgg cgctacatc cgagcccc acgcgcgcga gaccctcgtc 300
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tcagctatag ctgcctccgc cgtccatcag atgagagatg agactatagc tagcctagct 420
ggtgagtgcg cgatgcgttc atgccgatg catccatggt cctgttcgat ggatgatgat 480
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<210> 1217

<211> 471

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120g07b1

<400> 1217

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cacccgcaa ggccgcccgc cccggcgccg acgaggaggg ccgcccga ggccaaggcc 120

cggtcgcg acaaggggaa ggggaagatg gtggtcgatg aggaggaaga aggcgacgag 180

gaaagcgacg aggaggagga tgacgaggag gtcgaggag atggcgacga gagtgcggc 240

ttatgcgagg atccccctc ggaggtcgac ctcaacaaca tcctgccctc tcggacccgc 300

cgctgcgcc cagcacagcc tgtggcgtag ctggtgccac cagaggaggc agcggaggat 360

gacgaggacg atgaggacgc atacgtcgac atggctcccg gggaggagag cggctacngg 420

gaggagagcg attagggtag caactggact aactcgctgg caatccttcg t 471

<210> 1218

<211> 330

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189120g08b1

<400> 1218

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ctccgtcgtc cgagcagacg gccacggcg cgcgggggc catgttctcc tcctgcctt 120

ccggcgggcg cagggccacc tcaaccccat gctgcagctc ggccgtcgcc tcgcctacca 180

cggcctcgc cccacgctag tcaccacgc ccacctctc gccaccgtcc cgccccctt 240

gcccccttc cgcgtcgccg ccctctccga cggtttcgat gaaggcggca tggctgcgtg 300

cccgacttc cgggagtac ggcccggt 330

<210> 1219

<211> 447

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120g09b1

<400> 1219

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gagcgagcgc aatggcgacg gcggcaagga gcgcgccggg ggagaacggc aacggcggcg 120
gcggcggagt gtccttgag atgccggaga tcaggtacac caggctcttc atcaacgggg 180
ccttcgtcga cgccgtctcc ggtaagacat tcgagacgag ggatccgcgc accggggacg 240
tgatcgccag catcgctgaa ggcgacaagg aggatgtgga cctggcggtc aaagcggcaa 300
gagaagcctt cgatcatggc aaatggcctc gcatgcccg atccgaaagg gggcggatca 360
tgatgaagta cgcggacctg gtggagcagc acgcggagga gctgaccctg ctggagagcc 420
tggacngccg caagccgcgc atggcga 447

<210> 1220
<211> 194
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120g10b1
<400> 1220

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cagctgtagc tttgttgcca gataaaatgg tgaactttgc gtatctctgt tttggtttgg 120
catgctgaga gtattcatgc agcatcacat aacaatgttt agggcggttac ctctgattta 180
tgtgcgttgt tttc 194

<210> 1221
<211> 575
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120g11b1
<400> 1221

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ggttctcttt gttgcttcta accggatagg aaaggaaact gtcgagactg agcatgggaa 120
cagcaccata aaattctacg ggaactcatt catcgcaggg ccaactggag aaatcgtgaa 180
gcttgcaaat gacaaagacg aggaggtgct cgtggcagag tttgacttgg acgagatcaa 240
atctacgaga cacggctggg ggatattcag ggacaggcgt cctgatctat acaaagtgct 300
actgacgttg gatggcaaga catcatcatc atcctagggt ccacttttat gaagacgaca 360

tgaactccag aatgctatac tgggaaaaca caggggccgt aagtctagct tccccctgca 420
aaagaaatgg tttgcctctt tgcaacgtat ccccggtgtt gcgactcggg gattttccac 480
caatagagca ttaataaaat actgtcatgt aagagaaata ttgctcctac aagtatgaag 540
attagggatc aaagcaatat aataatgatg catcg 575

<210> 1222
<211> 364
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120g12b1
<400> 1222

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tacggaggcg gcggcgggtg cggctacggc ggcagccgcg gcggctccgg cggcggcaac 120
tggagggagt gaatggtggg gccctagct ggccagttat cctagttacc gatccctttt 180
ttacctgtc taccaaagtg ttatcgctcg ctcccagta ccctagatct cgctccatcg 240
cgtaggttcc gagatgttct ggctaccgtt agatgtgacg ccgctaccgt tccgtgttac 300
ttgttaccgt ccctgttccg ttcgctatga atgaaatgaa aaatcagagc aaaagtttgt 360
tcgc 364

<210> 1223
<211> 460
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120h01b1
<400> 1223

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cctgaggccg gccctaaatt tgtttgatca attcttttgc tactagtagt aactagtgat 120
gatcactgtt gcatcattta tttatttatt ttatatatca tcacaagttt cctgtgatcc 180
ttttctttct ataccttttt gtcgatcgtc ggctccagct cgatcgaacg atccatgctg 240
ctaattgttt gtgtacgggt gattaagtaa cttgtgcact tgtgcttaca gttaaaaaaa 300
atagagatta ggaaaaccct taagttaccc aacttaattt gctatgacaa aaatgccaat 360

tttgccagat agcataaatc ccaaagaggt ccccgactta tacttttccc aacaatatcc 420
taactaaggg gggccctttt taaaggatcc aatctttttt 460

<210> 1224
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h02b1

<400> 1224

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cacgcctacc cctaccccaa gtgccccac acccgcgagc tttaccgcc ggtgaccoga 120
cccaattcgc tcgggtgttg gaggcactga cagcacaagc agcttccatg aagctgcgcg 180
gccaccccta gccccttca cctccttct cccacttgca cacatgagaa ggaattggat 240
cagagtcggt ccctcaatct aaaccaagag gagtgcccat tgaacatgat ggtgtgcaga 300
tcgcgagag ttgcatcgcc aagcgctgac tcatatcttg aagtgccatg gaggaaagct 360
tgtgaggatg caggggccgt tgggtggtgt ggacttatcg taggttgaac cacatcttgc 420
ttttcttttg tcaatctgct ctcttgctc tctgagtcac aa 462

<210> 1225
<211> 130
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h04b1

<400> 1225

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cggacgtgga tatctgttgt actgctataa tcgggacctt tatcttttgt ataaggcatg 120
gttgccattc 130

<210> 1226
<211> 273
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h06b1

<400> 1226
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tatctttctt atttgttcct aagaatatgt gtatgtccat gttcatgtac caacatggct 120
cgagaaagca tgctcgtatg tgaatgctat cgggtggctat gtatatgcac ggacgcataa 180
tattatacaa tatgtcaact atatacgttt taatggtaac caactcaaaa aaaaaaaaaa 240
aaaagaagaa attgaaaggc aaaaaacaca aaa 273

<210> 1227
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120h07b1

<400> 1227
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catggcagac cagttcaggg aagctcgacc acgggcggtg gaggtgtacg ctgaggtgct 120
ggacgaagga tgtagcactt ggctactggg ggagcctcat gctccaggaa gcgtgtggtg 180
gcagccttac cgaggcttat gcagtaacaa gcatccgcgc cccacgacc gaatacatgc 240
gtgcctccgc aaggaagacg actcagacga gagaaggacg ttcaggagca cggcccggta 300
cccatgacct ccctcagatt cagtgcagac tcgtgcaatg cgcatttttc ctttttgttc 360
cccacatatt atgctgatga cggacgccac actactcgat ttggagcatt ttgat 415

<210> 1228
<211> 439
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsfl189120h08b1

<400> 1228
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ccatccccgc caaggaccga cgtccccgcc gtcgtctcgc ccgtgcccac acaagtacgc 120
tctggtggcg gcacggcggc cgtctcgctt cgtctgcaag tgcaagaacg tcgtcaacga 180
agtgattgtg gctgaccaga agaattggga taacatgggtg atcgcggtgc agtcgccggt 240

gctggtggag ttctgggccc catggtgcgg gccgtgccgg atgattgccc cggatgatcga 300
 ccaactggca aaggactact tgggcaagat caagtgtgc aaggatgaaca cggacgactg 360
 cccaaacatc gcatccacct acggcatgcg gagcatccnc accgtgctca tgttcaagga 420
 ccgcgagaag aatgagagc 439

<210> 1229
 <211> 62
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120h09b1
 <400> 1229

gacccccct gtagcggccc attaagcccg gcgggttgtg gtggttactc ccaacgtgac 60
 cg 62

<210> 1230
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120h10b1
 <400> 1230

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 aaacttcata caaggcctgg ctgtttgtat taccgtctct ttttgtggaa cttgtgctcc 180
 ttacgtttta gcctatgcac ttccctaaat caattatagc aatgttggtg cctagcaaaa 240
 aaacttaaag aaaaccaaaa taaagaccaa aataaactac acaataaaa 289

<210> 1231
 <211> 485
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120h11b1
 <400> 1231

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gatccagagc aagacctaca tggaggtgaa gggtagccgc accgcgaacc agtgcccgcac 120
 catcgacggc ggcgtcgact ccttccccctt caaggccggc aagtacgaga tgaagaagtt 180
 ctgcctggag cccacctcct tcaccgtcaa ggccgagggc atccagaaga acgagccgcc 240
 ggccttccag aagaccaagc tcatgaccgc tctcacctac acccttgacg agatggaagg 300
 cccgctcgag gtcggcgccg acggcaccct caagttagag gagaaggacg gcatcgacta 360
 cgcggacgtc accgtgcagc tccccggagg cgagcgcggtg cccttcctct tcaccgtcaa 420
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 caggg 485

<210> 1232
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120h12b1
 <400> 1232

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 caagcgcgtc catgcatgca cgtaggaagg attatatatt gaactagttg acattgttgc 120
 agttggtgga catgctgatg ggggaagggca cgctgacgcc gcacttgccg ggcacgccgg 180
 agaccttgcc catgttgatg gacttgatgc tggtagcgag gctcttgagg cacctgcacg 240
 ctatcttgcg gtccgggctg ctgcgggcca ggccggtcag cccctgcacg ccggagcagc 300
 actccttgct gatcgaggac gccctccccg tcacgtacgc cacgcacggn gcgagcttgg 360
 agtacacctg cccgtacgac agcgctcgcg aggcctccct gtcggccatc atgagcacca 420
 ccgtcgccag gaccacgg 438

<210> 1233
 <211> 196
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007c01b1
 <400> 1233

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 ttcttggcga ggcgccaaaa acaaaataaa aaaccggcgg tcgctctcgg gggactaatc 120
 tatacaaata ccgtaaccgg gcggcttctg tttagcgggtg gtaacctaaa atctcagtgc 180
 ttggagccat gttggt 196

<210> 1234
 <211> 118
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189117b09b1
 <400> 1234

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 tggtgctatc tgctatatat atggataata agaataaagg gaatcatttt cgcttctt 118

<210> 1235
 <211> 161
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119a11b1
 <400> 1235

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 gtacttgaaa tccttctgct gccgtgacat cagagattgt gaaacatttg ataccattt 120
 gcagtttcat ttctgaatgc atgttgaatc tacttatgtt t 161

<210> 1236
 <211> 320
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120c01b1
 <400> 1236

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caagacagag catccccacc ggccggatct ctttttcac atctcccttt ccgcttcttt 180
gaaatcgctt accaccgnca tggctaagca gcagaaagaa cgcgcacgtc ccgaagtctg 240
gcaactggga caacgacggc aacgtccctt tacacgtctt actttgacaa cgcgcgcaag 300
ggcaagggcg gaaagcccat 320

<210> 1237
<211> 324
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl15710042a12b1
<400> 1237

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tattaggttg ttgatctct tgctccttac caaagaggag gaaagatcgg gcttttttgg 180
cggtgctggg gttgggaaaa cagtgcctca tatggaactg attaacaatg ttgccaaagc 240
tcatgggatg tactttccgg gtagtttaaa gtagtgtgca cagtgggtgtt ccagtttttt 300
tttaactttg gtgcttcttc tgat 324

<210> 1238
<211> 401
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl15710042c11b1
<400> 1238

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aaattgctta gaagtagtaa acagctttgt tagtattttt atgggtcaaaa tgtgtcataa 240
tctaattcat ttaaccaatt cataagagtt agagatggag tatgagtgtt tagacaacac 300
ttttacccat tttattcaaa aagaggctaa aaccaacgaa aaattgctta gaagcagtaa 360
atagctttgt tagtggtttt aaaatcaa tttgtcacia t 401